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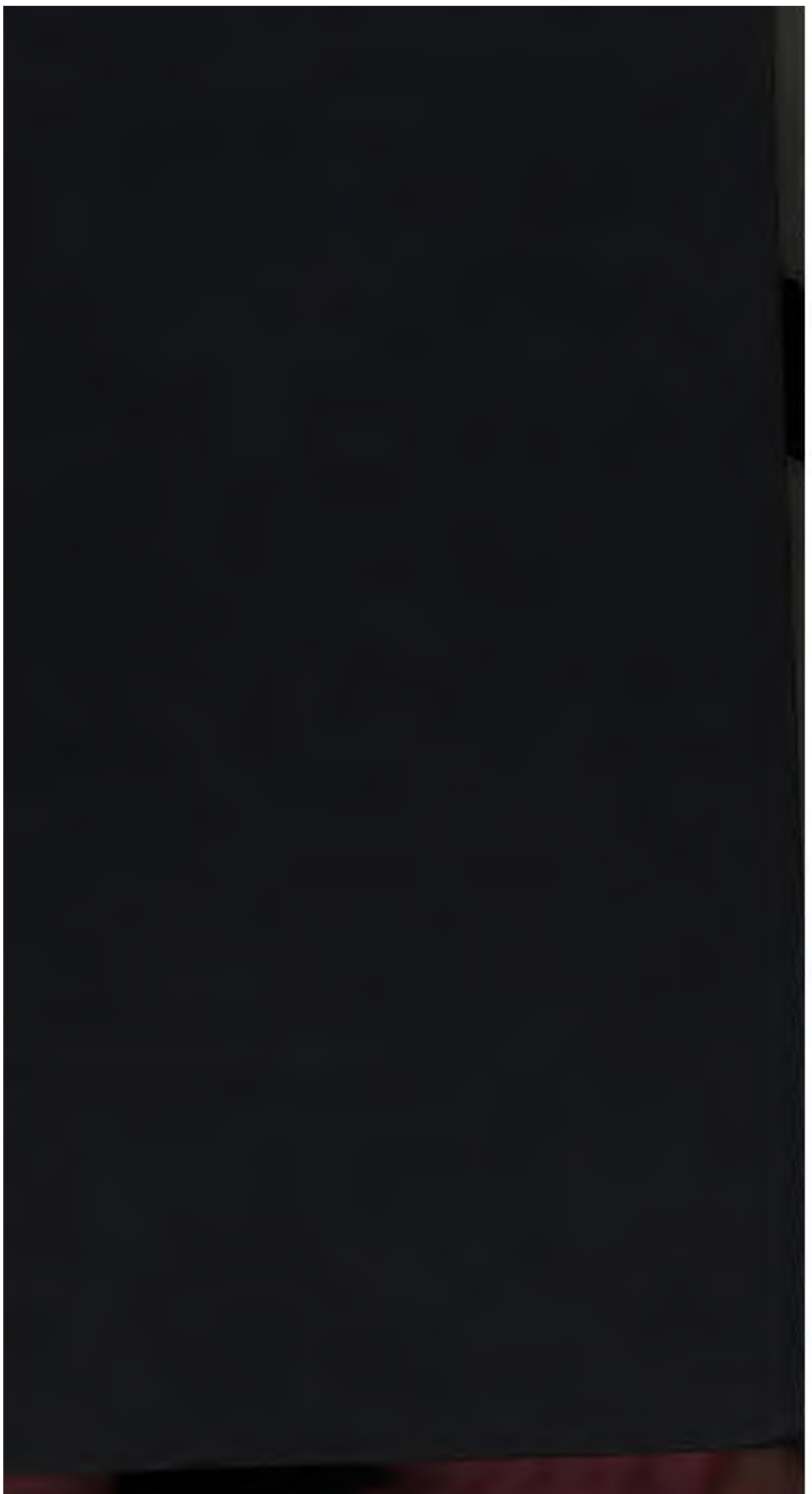
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"To Learn to Classify is in itself an Education."—ALEX. BAIN.

DECIMAL CLASSIFICATION

AND

RELATIV INDEX

FOR ARRANGING

CATALOGING AND INDEXING

PUBLIC AND PRIVATE LIBRARIES

AND FOR

PAMFLETS, CLIPPINGS, NOTES, SCRAP BOOKS, INDEX RERUMS, ETC.

Second Edition, Revised and Greatly Enlarged.

BY MELVIL DEWEY, A.M.

Professor of Library Economy and Chief Librarian of Columbia College; Consulting Librarian of Wellesley College; Secretary American Library Association; late of Amherst College Library, and Editor Library Journal, etc., etc.

²BOSTON
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PUBLISHERS' NOTE.

In 1873 the system described in the following pages was devised and put in operation in the Amherst College Library of 30,000 volumes. In 1876 it was printed with the preface reproduced in this edition. In the same year the United States Special Report on Libraries described it on pages 623-648.

Very soon individuals and libraries began adopting the system, and it spread quietly and without advocates except as its value was reported after trial, till it came to be more widely used than any other. The record of those adopting it has only just been commenced, and at present is very fragmentary.

For ten years this system has been subjected to the most trying test,—actual use for all the various purposes for which it was designed.

We hear of it as helping greatly some school-boy in keeping his notes, and next as in use by the president of some Royal Scientific Society; or simplifying the work of the smallest village or school library, and next as adopted, and after trial much liked, in the National Library of a foreign country.

It has been used by the ignorant and the learned, by the most painstaking and accurate scholars, by hurried men of business, and in all places has proved itself easily adapted for various wants. In short, ten years' experience has more than confirmed the great hopes of its usefulness expressed on its publication; and the calls for the new and enlarged edition have been accompanied by many unsolicited and enthusiastic testimonies. It seems destined to be of the greatest service as a labor-saving tool to a rapidly increasing body of users.

This work, which has been brought to its present state by great labor, extending through several years, is a gift to the public. In turning it over to the publishers, the author stipulated that no charge should be made to any person or institution for using it; and that the total receipts from the sale of the book, above actual expenditures, should be used wholly in the interests of users of the system, in providing needed accessories, enlarged or added special indexes, charts, shelf labels, guides for catalogs and readers, etc. No allowance is made for the labor of the author or the hundreds of specialists who have assisted in its preparation. This statement is made to show that while the system is copyrighted, and the right strictly maintained, it is wholly in the interests of the users, and not as a source of income to either author or publishers.

Experience has proved that much confusion results from printing unauthorized editions with various changes. The numbers are given a new meaning, and endless inquiries and explanations, corrections, etc., arise from young catalogers accepting these changed numbers and try-

ing to reconcile them with the general index. While every person is at liberty to make all the changes he pleases in ms., it is found necessary to forbid all printing in violation of the copyright.

Libraries wishing to print the tables or index as a part of their catalogs, can always make satisfactory arrangements for so doing, as we wish to make the system as useful as possible; but unless carefully guarded, literary tinkers, ready to "improve" in an hour the carefully digested work of years, will print in catalogs, reports, or pamphlets, modifications, which are widely scattered and accepted as correct copies, thus introducing confusion, and destroying all that uniformity which is so important a part of the scheme. This also prevents legitimate sales, without which it is impossible to provide many things of great value to the users of the system; e. g., printed cards for catalogs, indexes, labels for shelves, guide boards, etc. All these valuable co-operative publications depend on the numbers retaining their authorized meaning. Permission to print any part of the system in its proper form and with proper acknowledgments, can always be had of the publishers.

No user's freedom will be needlessly hampered by the copyright. If the advantages of using the system in harmony with the large body who utilize each other's labors are not convincing, permits will be given to print variations and changes, provided it is made clear, by using letters instead of numbers for the new heads, or some other satisfactory means, just what these changes are. The publishers merely protect the large body of regular users against the printing and distribution of garbled editions, without proper indications of the variations made.

While willing to sacrifice their pecuniary interests whenever the wider usefulness of this rapidly growing system requires it, they cannot allow it to be both stolen and mutilated, to the confusion and annoyance of its friends.

This system has come into so wide use that co-operation long dreamed of, by which great savings in time and money and great gain in methods should be secured, but hitherto impossible from lack of harmony in systems in use, has become practicable and is fast becoming fact. For this a record of addresses is essential. In order to be able to send to each user notice of any helps, corrections or additions that will be of service to him, a register has been started giving for each user, as far as obtainable, Name; P. O. address; when adopted; for what use; if for books, how many vols; by whom recommended or how led to adopt; notes of any difficulties or suggestions for any improvements.

Users are urged to send these facts for this record. The advantages of knowing, e. g., all the clergy, physicians, teachers or engineers who are using it for notes, clippings, pamphlets, private libraries, is only second to knowing the various classes of libraries that are using it in any of its applications.

INTRODUCTION.

[To show the development of the system and how few changes the experience of hundreds of users in the past ten years has shown to be desirable, the prefatory matter of the first edition is reprinted as the Introduction to the second, with modifications and additions inserted in brackets.]

[The simplified spellings used are strongly recommended for general adoption by both the American and English Philological Associations, including nearly all the prominent scholars in English now living. The author greatly regrets the prejudice that certain readers will feel against these changes, but after giving careful study to all the objections urged against them, he finds the entire weight of scholarship and reason in their favor, and feels compelled in good conscience to bear a share of the prejudice which some must endure before the great benefits of a rational orthography can be secured.]

ORIGIN.—The plan of the following Classification and Index was developed early in 1873. It was the result of several months' study of Library Economy as found in some hundreds of books and pamphlets, and in over fifty personal visits to various American libraries. In this study, the author became convinced that the usefulness of these libraries might be greatly increased without additional expenditure.

[He found it impossible to get more than a fraction of the good possible from a library without catalogs, indexes and aids to tell librarians and readers what the collection contained on any given subject. By any of the methods then used this could be done satisfactorily only at a cost so great as to be prohibitive to all but a few wealthy libraries. With rare exceptions the libraries were all growing rapidly. The catalogs, etc., prepared at great cost, were antiquated almost as soon as finished. All the methods involved frequent re-markings, re-arrangements, and re-making of catalogs and indexes as the only escape from a confusion that seriously crippled the usefulness of the library. In this repetition of the work the experience and skill of previous librarians was largely lost. The problem was to invent a system which should enable each librarian to stand on the shoulders of his predecessors and fully utilize their labors; which should make the work done to-day permanent, instead of something to be superseded within a few years and therefore not worth being done in the best way; which should afford the most perfect tools for doing all this, instead of leaving the young librarian not only to learn how to work but to make all his own tools.]

Three years' practical use of the system here explained leads him to believe that it will accomplish this result; for with its aid, the catalogs, shelf lists, indexes, and cross-references essential to this increase of usefulness can be made better, faster and cheaper than by any other method which he has been able to find, and when done are vastly more permanent.

The system was devised for cataloging and indexing, but it was found on trial equally valuable for numbering and arranging books and pamphlets on the shelves. [Twelve years' use has developed scores of other uses. For notes on some of these, see "Various Uses of the System," at the end of this Introduction, pp. 56-62.]

Practical utility and economy are the keynote of the entire system, and no mere theoretical refinement has been allowed to modify the scheme if it would detract from its usefulness or add to its running expenses. It was chiefly necessary to invent¹ a SUBJECT INDEX that would index the books and pamphlets on the shelves, the cards of a catalog, the clippings and notes of scrap-books and index rerums, the cross references to all these items, and indeed *any literary material in any form*, as readily as the ordinary index guides to the proper page of a bound book. Here, as elsewhere, it has been borne in mind that the simplest method is much the best, and this difficult problem has been solved by using no reference marks except the simplest symbols known to the human mind, the Arabic numerals, and their simplicity is further aided by most practical mnemonic devices.

After the SUBJECT INDEX, economy and simplicity called for some plan of consolidating the two sets of marks heretofore used; one to tell of what subjects books treat, and the other to tell where the book was to be found on the shelves. By the relative location and the decimal class numbers we have made our simple Arabic numbers tell of each book and pamphlet, both what it is and where it is.

¹ Extended investigation shows that this most important feature of the system, the subject index on which all else hinges, has never before been used as here to index by a single reference the most diverse material. The relative location had been used in a few cases, but not in the present combination with the subject index which gives it most of its value. The tables of classification, while getting many suggestions from other sources, are original in their system of arrangement and notation, and in many minor features. The decimal form and many mnemonic features of the system have not been found in earlier use, though, since their invention in 1873, this as well as the subject index and other features have been very frequently copied, often with, but oftener without, acknowledgment of their source or permission from author or publishers.

An essential part of the Subject Index is the table of classification, mapped out in logical order and skilfully arranged to show in no less than four ways, viz. : by size of type, face of type, indentation, and number of figures prefixt, the exact rank in the classification of the thousands of headings. An explanation of the construction of the tables will make clearer the nature and use of the Subject Index.]

TABLES OF CLASSES.—The library [considered for this purpose as containing all the books on all subjects] is first divided into nine special libraries which are called Classes. These Classes are Philosophy, Theology, etc., and are numbered with the nine digits. Thus, Class 9 is the Library of History; Class 7, the Library of Fine Art; Class 2, the Library of Theology. These special libraries or Classes are then considered independently, and each one is separated again into nine special Divisions of the main subject. These Divisions are numbered from 1 to 9 as were the Classes. Thus 59 is the 9th Division (Zoology) of the 5th Class (Natural Science). A third division is then made by separating each of these Divisions into nine Sections which are numbered in the same way, with the nine digits. Thus 513 is the 3d Section (Geometry) of the 1st Division (Mathematics) of the 5th Class (Natural Science). This number giving Class, Division, and Section is called the Classification or Class Number, and is applied to every book and pamphlet belonging to the library. All the Geometries are thus numbered 513, all the Mineralogies 549, and so throughout the library, all the books on any given subject bear the number of that subject in the scheme.

Where a 0 occurs in a class number, it has its normal zero power. Thus, a book numbered 510, is Class 5, Division 1, but *no* Section. This signifies that the book treats of the Division 51 (Mathematics) in general, and is not limited to any one Section, as is the Geometry, marked 513. If marked 500, it would indicate a treatise on Science in general, limited to *no* Division. A zero occurring in the first place would in the same way show that the book is limited to *no* Class, e. g. a general cyclopedia which treats of all nine classes.

FORM DISTINCTIONS.—The classification is mainly made by subjects or content regardless of *form*; but it is found practically useful to make an additional distinction in these general treatises, according to the form of treatment adopted. Thus, in Science we have a large number of books treating of Science in general, and so having a 0 for the Division number. These books are then divided into Sections, as are those of the other Classes according to the form they have taken on. We have the Philosophy and History of Science, Scientific Compendes,

Dictionaries, Essays, Periodicals, Societies, Education, and Travels,—all having the common subject, NATURAL SCIENCE, but treating it in these varied forms. These form distinctions are introduced here because the number of general works is large, and the numerals allow of this division without extra labor, for the numbers from 501 to 509 would otherwise be unused. They apply *only* to the general treatises, which, without them, would have a class number ending with two zeros.

[In the minute subdivisions of sections in the revised edition, this form distinction is often used to subdivide the general works on Divisions or even Sections, e. g. : Under 510, works on Mathematics in general are divided by form into 510.3 Dictionaries of Mathematics, 510.4 Essays, 510.5 Periodicals, etc., just as the works on SCIENCE IN GENERAL were divided. This conforms to the rule of ending with two zeros ; for if four figures are used these books would be 510.0, tho, of course, the 0 after the decimal point could be omitted.

Note that form divisions always have the same set of numbers, viz. : .1, Philosophy, Theories, etc ; .2, Compendes, Outlines ; .3, Dictionaries, Cyclopedias ; .4, Essays, Lectures, Letters, etc. ; .5, Periodicals, Magazines, etc. ; .6, Societies, Associations, Transactions, Reports, etc. ; .7, Education, Study, Teaching, Training, etc. ; .8, Polygraphy, Collections, etc. ; .9, History. Thus a periodical on any subject has the subject number followed by 5. If the next place of numbers is assigned to subject subdivisions, then the main head really ends in 0, tho not printed at the end, e. g. ; 780 Music ; 780.5 Periodicals on Music ; 636 Domestic Animals ; 636.5 Poultry, i. e., being subdivided by subjects, the general head is really 636.0 (tho always printed 636), and Periodicals on Domestic Animals in general is 636.05, while a periodical on Poultry alone could be numbered 636.55, Exhibitions and Transactions of a Poultry Society 636.56, etc., if a special collection of books on the topic made so close division useful.]

A Dictionary of Mathematics is 510.3, not 503, for every book is assigned to the *most specific head that will contain it*, so that 503 is limited to Dictionaries or Cyclopedias of Science *in general*. In the same way a General Cyclopedic or Periodical treats of no one class, and so is assigned to the Class 0. These books treating of no special class, but general in their character, are divided into Cyclopedias, Periodicals, etc. No difficulty is found in following the arithmetical law and omitting the initial zero, so these numbers are printed 31, 32, etc., instead of 031, 032, etc.

[Nearly all users of the system in the past ten years have found it better not to omit the initial zero. The eye gets so in the habit of reading as *Science* any number beginning with 5, that there is a little mental hitch if, e.g., General Periodicals are written 51 etc., instead of 051, etc. Then in classification it often happens that the first two figures are obvious at a glance, but time must be taken to determine the third. It is convenient to write these first figures, but if the Mathematical book receives its first two figures 51, it is liable to be confused with the American General Periodicals if they are written 51 instead of 051. This danger may be avoided largely by writing the decimal point after a blank (i. e. 51 .) to show that a figure is omitted, but it is better uniformly to use the *initial zero*. Another reason is that the one and two figure numbers 1-99, are thus left available for special uses if they should be needed. On this special use, see "Practicable Variations," p. 53⁴.]

CHOICE AND ARRANGEMENT OF HEADS.—The selection and arrangement of the thousand headings of the classification cannot be explained in detail for want of space. In all the work, philosophical theory and accuracy have been made to yield to practical usefulness. The impossibility of making a satisfactory classification of all knowledge as preserved in books, has been appreciated from the first, and theoretical harmony and exactness have been repeatedly sacrificed to the practical requirements of the library or to the convenience of the department in the college.¹

[Whenever books on the same subject come before the catalogers they will be assigned to the same place, and whenever any reader seeks any of these books, the INDEX will send him for them to that place. If this is done, all the important requirements of a good classification are filled. If it is not done, the system is a failure, for the only real test of any scheme is its helpfulness to the workers in the library.]

As in every scheme, many minor subjects have been put under general heads to which they do not strictly belong. In some cases these headings have been printed in a distinctive type, e. g., 429 Anglo-Saxon, under ENGLISH PHILOLOGY. The rule has been to assign these subjects to the most nearly allied heads, or where it was thought they would be most useful. The only alternative was to omit them altogether. If any such omission occurs, it is unintentional and will be supplied as soon as discovered, the intention being to provide a place in the tables for every topic without exception.

¹ The rapidity with which the scheme has come into general use has led in this revision to the correction of these few special adaptations to the Amherst College Library, thus fitting the scheme, as well as possible, for the use of all libraries.

SEQUENCE OF ALLIED SUBJECTS.—Wherever practicable the heads have been so arranged that each subject is preceded and followed by the most nearly allied subjects, and thus the greatest convenience is secured both in the catalogs and on the shelves. [e. g. Building (690) follows the Mechanic Trades (680) at the end of Useful Arts, and Architecture follows at the beginning of the Fine Arts.]

The student of Biology (570) finds Paleontology or fossil life (560) before, and vegetable life or Botany (580) after, this followed in turn by animal life or Zoology (590), ending with mammals (599), while Useful Arts (600) begin with human anatomy (611) under Medicine, thus giving a regular growth from the fossil plant thru all the vegetable and animal kingdoms to the living man.]

CO-ORDINATION.—Theoretically, the division of every subject into just nine heads is absurd. Practically, it is desirable that the classification be as minute as possible without the use of additional figures, and the decimal principle on which our scheme hinges allows nine divisions as readily as a less number.

This principle has proved wholly satisfactory in practice, tho it appears to destroy proper co-ordination in some places. It has seemed best in our library to use uniformly three figures in the class number. This enables us to classify certain subjects very minutely, giving, for example, an entire section to Chess. But the History of England has only one section, as our scheme is developed, and thus the two might be said to be co-ordinated. The apparent difficulty in such cases is entirely obviated by the use of a fourth figure, giving nine sub-sections to any subject of sufficient importance to warrant closer classification. In history, where the classification is made wholly by countries, a fourth figure is added to give a division into *periods*.¹ As the addition of each figure gives a tenfold division, any desired degree of minuteness may be secured in the classing of special subjects. The apparent lack of co-ordination arises from the fact that only the first three figures of these more important heads are as yet printed, the fourth figure and the sub-sections being supplied on the catalogs in manuscript. Should the growth of any of these sub-sections warrant it, a fifth figure will be added, for the scheme admits of expansion without limit.

¹ As all history is by countries, and as minute geographical subdivisions are needed for travels, guide books, and various other uses, the rule is adopted always to use a 0 before the period figure. The 0 shows that there is no further geographical division in that number, and that period division is there introduced. This allows the use of the same period division in various places, e. g.: 942.05 England in time of Tudors. 942.905 Wales under the Tudors. 942.--05 ---- under Tudors.

[MINUTE CLASSIFICATION.—On the first publication in 1876, a common criticism was that 1,000 headings could never be successfully used however desirable so close classification might be. As soon, however, as actual experience demonstrated that it was as easy to use 1,000 heads with the new system as 100 in the old, the obviously great practical value of close classification led one user after another strongly to urge the publication of subdivisions. This is now done in such a way that those wishing may use the whole or any part of the sub-sections and ignore the rest without difficulty or confusion, and this in the whole or any part of the classification, thus allowing each to use minute subdivisions where he wishes or needs them, without being forced into refinements in subjects where he has few books or little interest. The first three figures only may be used as before, and the rest will serve to show the scope of the subject. On many topics minute sub-sections are printed simply for this purpose, and to use in indexing periodicals, transactions of societies, etc., and in preserving notes.

No one has ever questioned the advantage of the closest classification if the user knows just what it is. If there are only 10 books on a given topic, it is useful to have them in groups among themselves, for otherwise they would have only accidental order, which is of service to no one. The reader who wishes to hunt up a specific book should not go to the shelves, but can get its place quickest from the Author or Title-Catalog. If he wishes to find a specific subject, he is sent instantly to the exact place by the Subject-Index. If he wishes to study the resources of the library at the shelves, he will be *greatly helped by the most minute classing*. A teacher showing his pupil the material on any subject, if there are only 20 books, will be sure to put together those covering the same points if there are even two. Should not the librarian much more group closely his greater collection, so that his readers may gain something of the advantages of an experienced guide?

Suggestions from specialists interested in other subjects to be yet minutely subdivided will be gratefully received, and from time to time added sheets with such minute heads for indexing purposes will be printed and sent to the users of the system asking them.

DECIMALISM.—We have not sacrificed utility in order to force subjects on the decimal procrustean bed. *The decimals have been used as servants, not as masters*. Whenever subjects have been combined or separated in order to make nine heads, it has been from no necessity of the scheme, but because it seemed the most useful way, all things considered, e. g. : in many cases there were at first only three to seven heads instead of nine, but usually, during the three years of testing before publication,

it was found useful to divide some of these heads, and as it took no added space or labor there was absolutely no objection to it. On the other hand, there were cases where more than nine heads seemed more natural. By adding one decimal place any number up to one hundred is provided for, and in most cases this was done, but sometimes it was found preferable to put together two unimportant heads on a single number, thus saving an extra figure. In short, it is as easy and economical of space as in any system, to use exactly the number of heads wanted, anywhere from one to infinity, and the common occurrence of just 9 heads is no necessity of the system, but the result of practical experience which has proved that most useful. The scheme gives us for each topic, as it were, a case of nine pigeon-holes, with a large space at the top, and we use them as every practical business man uses such pigeon-holes about his desk. If, as in 220, there are less than nine main topics, it is often convenient to use the extra spaces for divisions, and we thus keep separate, under the Old Testament, the Historical, Poetical, and Profetic books, and under the New Testament, the Gospels, Epistles, and Apocalypse. The spaces are there, and it is convenient to use them, — a reason that experience proves a good answer to the charge of lack of co-ordination, tho the indentation and type in the tables make that charge baseless. Then in 280 having more than nine topics, we put Congregational in the same space with Presbyterian, and all the little denominations together in the last box, — just as the business man puts his papers in his pigeon-holes. If he insisted on having a different case made to order for each use, it would cost over twice as much, and he could not group them together or interchange them, and they would not fit the shelves of his office as now.

There has been a perverse misapprehension of this feature, and critics oftenest stumble over "procrustean 10." In fact, this is a main element of strength. A railroad also has the fault that it is Procrustean in its path and in its times. It cannot come to your door nor wait your convenience, as did the stage-coach or carriage; it cannot go to the fields for its loads of produce; it cannot turn out for obstacles; and it is simply because it is Procrustean that it can do its work so much better and quicker and cheaper. The parallel could be fairly extended to many other cases, but any thoughtful mind will recognize that the economy and ease of working the Decimal System are dependent on its being Procrustean. Without it we should lose the great simplicity of the Relativ Index; many mnemonic correspondences; and useful o

to indicate form and period divisions. Our intersecting lines of space and time in History, etc., of language and form in Literature and Philology, and scores of similar advantages, depend wholly on Procrustean 10, or else some other number equally Procrustean, and without the advantages of exact correspondence to our arithmetic, — e. g., our check-box of books issued, showing the books out in each class, division, and section clearly, and at a glance, and without extra labor; the decimal charts of the best books on various topics, with cross references, so that a single chart answers the questions of those studying, — e. g., by periods, by reading down the columns, and the questions of those studying, — e. g., by form or language or space, etc., by reading across the same columns. So illustrations might be largely multiplied. Experience compels us to accept the "Procrustean 10" as involving, like the railroad, some minor disadvantages, but inseparable from them, giving us tenfold gains.]

MNEMONICS.—The arrangement of headings has been sometimes modified to secure a mnemonic aid in numbering and finding books without the Index. For instance, the scheme is so arranged that China has always the number 1. In Ancient History, it has the first section, 931; in Modern History, under Asia, it has 951. After the same manner the Indian number is 4; Egyptian, 2; English, 2; German, 3; French, 4; Italian, 5; Spanish, 6; European, 4; Asian, 5; African, 6; North American, 7; South American, 8; and so for all the divisions by languages or countries. The Italian 5, for instance, will be noticed in 035, 055, 065, 450, 850, and 945. This mnemonic principle is specially prominent in Philology and Literature, and their divisions, and in the *form* distinctions used in the first 9 sections of each class. Materials, Methods, or Theory occurring anywhere as a head, bears always the number 1; Dictionaries and Cyclopedias, 3; Essays, 4; Periodicals, 5; Associations, Institutions, and Societies, 6; Education, 7; Polygraphy or Collections, 8; History, 9. In the numerous cases where several minor heads have been grouped together under the head Other, it always bears the number 9.

[Note, that while Italian is always 5, 5 is by no means always Italian. Grammar is 5, Periodicals are 5, Asia is 5, Oratory is 5, etc. To limit 5 to Italian would have been wasteful of numbering material, and the results would not have justified the cost. The purpose is to give practical aid to users of the system, and not to follow out a theory to a fanciful extent. A cataloger marking a German grammar, remembers that all Philology begins with 4, and as German is always 3

and grammar 5, he knows the number must be 435. Italian (5) poetry (1) is as plainly 851 with no danger of being mistaken for the "poetry of grammar" or the "theory of Asia," because the numbers also have that meaning. This feature is an AID, not the regular method, and in all doubtful cases reference is made at once to indexes or tables. The suggested difficulties are usually the creations of ingenious theorists and not the experience of practical librarians who are using the plan.]

Wherever practicable, this principle is carried out in subdividing the sections. For instance, the Geology of South America which bears the number 551 is subdivided by adding the *sections* of 980 (History of South America). The Geology of Brazil then bears the number 558.1: mnemonically, the first 5 is the Science number; the second 5, Geology; the 8, South America; and the 1, Brazil. Any library attendant or reader after using the scheme a short time will recognize at a glance, any catalog or leger entry, book or pamphlet, marked 558.1 as something on the Geology of Brazil. Users of the scheme will notice this mnemonic principle in several hundred places in the classification, and will find it of great practical utility in numbering and finding books without the aid of Catalog or Index, and in determining the character of any book simply from its call number as recorded on the book, on all its catalog and cross reference cards, on the leger, and in the check box.

[As noted in regard to close subdivision, the wish to get mnemonic correspondence has never outweighed any claim of greater usefulness. In many cases the choice between numbers was hardly perceptible, e. g.: whether in Philology the order should be French, Spanish, Italian, or French, Italian, Spanish. In all such cases where there was no good reason to the contrary the mnemonic numbers were given preference, and ten years has proved this the wisest course. Very great gain, beside the ease of remembering, results from this uniform use of the same numbers with the same meaning whenever a similar division is made. Wherever a division by languages or countries is made, it follows the Philology or History numbers, and in the tables, the note "Divided like 900" fully takes the place of reprinting all the History pages or their equivalent. This immense saving justifies the use of these numbers in some cases where a somewhat different order would seem more nearly fitted to the special case,— e. g., in following the numbers of 030, which are used in scores of other places, for 759, Schools of Painting, American painters are brought before their older brothers of Europe, and historical order is violated; but with rare exceptions it has seemed much better to follow

the usual "Procrustean" numbers. By so doing, any of these topics can be subdivided in the minutest way without further study, by simply applying the subdivisions from History or Language. A single illustration of the astonishing power this principle gives will suffice, tho there ar thousands that might be given: 016 is Bibliografy of Special Subjects, divided like the regular classification. Examination of the tables under the 928 will show that 016.9289551 redily translates itself to any user of the system into "Bibliografy of lives of Persian poets." While these ten figures might never be used, if a specialist wishes minute division, it is redy to his hand, conforms to the great index, and will be clearly understood by any one familiar with the plan. A specialist in such cases would, of course, adopt a contraction for his long number, and use in full only the minute divisions. See Practical Variations, on p. 53⁵, for such contractions.]

CATCH-TITLES.—In naming the headings, brevity has been secured in many cases at the sacrifice of exactness. It was thought more important to hav short familiar titles for the headings than that the names given should express with fulness and exactness the character of all books cataloged under them. Many subjects, apparently omitted, will be found in the Index, assigned, with allied subjects, to a heading which bears the name of the most important only. Reference to this Subject Index will decide at once many doubtful points.

[In this edition, headings are given with much greater fulness in the final sub-sections, yet the above remark still holds good, and a careless user may mistake the author's meaning because of the brevity of the headings chosen.]

RELATIV INDEX.—The Alfabetical Subject Index is designed to guide, both in numbering and in finding the books. In numbering, the most specific head that will contain the book having been determined, reference to that head in the Index will give the class number to which it should be assigned. In finding books on any given subject, reference to the Index will give the number under which they ar to be sought on the shelves, in the Shelf Catalog, or in the Subject Catalog. The Index gives after each subject the number of the class to which it is assigned. Most names of countries, towns, animals, plants, minerals, diseases, etc., hav been omitted, the aim being to furnish an Index of Subjects on which books ar written, and not a Gazzetêer or a Dictionary of all the nouns in the language. Such subjects will be found as special chapters or sections of books on the subjects given in the Index. The names of individual subjects of biografies will be found in the Class List of Biografy. Omissions of any of the more general subjects will be supplied when brought to notice.

[This SUBJECT INDEX is the most important feature of the system. Its list of subjects is the most complete that could be made by combining all the headings of all the leading catalogs and bibliographies, and adding to the list all that users of the system have found omitted in ten years' experience. Even with this effort it is expected that new headings will constantly be added, and each new edition will contain all that have been sent in. These, arranged in a single alphabet in single line entries, in the most convenient type and form of page known to printers, make the easiest possible list of subjects for consultation. The references are all made by simple Arabic numerals with their ordinary arithmetical powers. As the human mind knows nothing simpler than 1, 2, 3, 4, 5, 6, 7, 8, etc., written in Arabic numerals; and after this nothing simpler than a, b, c, etc., in plain Roman type, it is believed that it is not possible to devise a more simple and effective index. A single illustration will show its utility. A reader wishing to know something of the Tariff, looks under T and at a glance finds 337 as its class number. This guides him to the shelves, to all the books and pamphlets, to the shelf-catalog, to the subject-catalog on cards, to the index of books charged at the Loan Desk, and, in short, throughout the whole library 337 will lead him to anything bearing on his subject in simple numerical order. He need not turn to the tables to see that it means Class 3, Sociology; Division 3, Political Economy; Section 7, Protection and Free Trade; but the number alone is enough to classify the book or to find it, whether he be cataloger or reader. If he had looked under P for Protection, or under T for Taxes, or under F for Free Trade, or under D for Duties, or C for Customs, or I for Import, or E for Export, or under any word that could refer to his subject, his answer would have been just as direct and simple, viz.: 337.]

This index allows a great portion of the work to be done in advance by experts, thus securing better and more uniform results than would be possible to the ordinary cataloger, and at the merest fraction of the cost. Each of these thousands of subjects has been carefully assigned its number, many of them after long consideration and consultation with experts. Even if the decision reached were not the wisest possible, all practical purposes are served, because, as each cataloger copies the number from the same Index, all books on that subject will be placed together, and as each reader gets his number from this same Index, it insures that every seeker will go directly to the place where the book was placed.

When new subjects come up and are interlined in the Index, the class number once decided insures that the cataloger will be uniform with himself in future work, a thing heretofore found impossible even by the most expert catalogers, and also that after his death or resignation his successor will be able to continue the work exactly as he has commenced it.

The greatest objection to a class catalog has ever been the impossibility of knowing just where to put a book in cataloging, and just where to look for it when it is again wanted. Different librarians, or the same librarian at different times, class the same or similar books in widely different places. Where one man did all the work and held his place for a long series of years, there was a certain degree of uniformity; but even then there was the danger of looking at the same book from different standpoints, thus causing confusion. This danger will be understood by any one who has ever attempted classification, and is not at all surprising when one considers how differently competent authorities often class the same subject. But, fortunately, practical usefulness does not require that this one's or that one's ideas be followed, but only requires that books of the same character be always put in the same place, and that there be some means of readily knowing where that place is. The Relativ Index was designed, and is found in use, to meet both these requirements. In making it, each subject difficult of classification is referred to a specialist, and the number of the class to which it is decided to assign it is given after it in the index. Whenever a book is cataloged, reference to this index decides at once what number to give it. If the first number is wisely assigned, all the succeeding ones are sure to be, for the class number was given once for all, and it is only necessary to refer to the index to find what that class number is; so it will be seen that a perfect uniformity in classing is secured, for tho any one familiar with the scheme will class most of the books without the aid of the index, it will be consulted in all doubtful cases. A new librarian is thus able to class in the same way that his predecessors class. A clerk, if he only knows the subject of his book, by the use of the index can class just as the chief of the catalog department would class, and usually the difficulty is not in deciding what a book is about, but where to put it in the scheme. The index aims to give similar or synonymous words, and the same words in different connections, so that any person of intelligence will hardly fail to get the right number. For instance, "railroads" in the index is followed by two numbers, 385 and 656. A book on railroads may be a treatise on the desirability of government ownership, control, etc.,

and then is clearly a question of social science ; or it may be a practical hand-book for an employee, explaining the business methods of railroad-ing, running trains, handling freight, etc., when it is as clearly one of the useful arts. The cataloger knows to which of these heads his book belongs, and the reader knows in which of its phases he wishes to examine the subject. The 3 and 6 beginning the numbers indicate clearly the character of each section. If the significance of these figures were entirely disregarded no confusion would result, for on consulting either of the numbers in the catalog, in the scheme, or on the shelves, the difference will be clearly pointed out.

The writer is aware that a subject index to accompany the classification has been suggested, but he has seen none that at all answers the purpose. In a book catalog such an index could be made referring to the page on which a subject is classed, but it would be useless for a card catalog and unsatisfactory even for the printed volume. A subject index, referring all minor topics to their exact place in the scheme, as does ours, would be found expensive in printing and inconvenient in use, were it not for our numerical principle, which secures at once economy and ease of reference. Where we have only to print "Geometry, 513," such an index would have to print, "Geometry, natural science, pure mathematics, geometry." This increases the bulk and expense of the index and so is objectionable ; but the great objection is on the score of convenience ; reference to a simple numerical arrangement being so much quicker and easier of comprehension by the public who use a library than involved alphabets and sub-alphabets with their ramifications. No individual is sufficiently learned to wisely classify books on all subjects and sciences ; but the botanist can assign all botanical subjects to the right number, the mathematician all the mathematical topics, and thus, by the aid of specialists, the index can in time be made reasonably accurate. Thus, the labor of classifying the books of a library is reduced to much narrower limits than ever before. Notice of any errors or omissions in this index will be gratefully received by the author.

It is plain that this index serves equally well for the reader who wishes to know where to seek for books on any subject.

Wherever a class number in the Index ends with 0 it shows that the subject is subdivided, e. g., Painting 550, Mathematics 510, Natural Science 500, etc., and by consulting the tables one may see the sub-heads. In the new Index all topics which are further divided are printed in black-face type, thus making very clear the importance of turning back to the tables.

Not infrequently, a subject is followed by two or more numbers in the Index, e. g. : Telegraph 384, 654. One but little familiar with the scheme would know without looking back to the tables that the first was under Sociology and referred to the Telegraph as a factor in society, covering discussions of government control, connection with the Post-Office, etc., while under the Useful Arts 654 must mean Practical Telegraphy, discussions of instruments, alphabets, methods of duplicating, etc. The two kinds of books are entirely distinct, and it is practically more useful to put those treating it from the standpoint of social science, with Sociology.

In other cases it has been thought more useful to keep the books on the same subject together, though treated from entirely different standpoints. A glance at the index tells either reader or classifier which plan has been adopted for each case. The new Index gives catch words indicating the place of the subject in the scheme, thus saving reference to the tables.

RELATIV LOCATION.—In arranging the books on the shelves, the absolute location by shelf and book number is wholly abandoned, the relativ location by class and book number being one of the most valuable features of the plan. The class number serves also as the location number, and the shelf number in common use is entirely dispensed with.¹ Accompanying the class number is the *book* number, which prevents confusion of different books on the same subject. Thus the first Geometry cataloged is marked 513.1; the second, 513.2, and so on to any extent, the last number showing how many books the library has on that subject. The books of each section are all together, and arranged by book numbers, and these sections are also arranged in simple numerical order throughout the library. The call number 513.11 signifies not the 11th book on shelf 513; or alcove 5, range 1, shelf 3, as in most libraries, but signifies the 11th book in subject 513 or the 11th Geometry belonging to the library. In finding the book, the printed numbers on the backs are followed, the upper being the class and the lower the book number. The class is found in its numerical order among the classes as the shelf is found in the ordinary system; the book in its numerical order in the class. The shelves are not numbered, as the increase of different departments, the opening of new rooms, and any arrangement of classes to bring the

¹ The relativ location is rapidly superseding the old fixed location, and should be adopted on its own merits regardless of the classification used. The full explanation of advantages and methods, together with the various plans of book numbers, will be printed in the author's hand-book on shelf-systems, so is not repeated here.

books most circulated nearest to the delivery desk, will bring different class numbers on a given shelf. New books, as received, are numbered and put into place, in the same way that new titles are added to the card catalog.

As the cross-reference is itself the call-number, a reader having any one of the three (book, title, or cross-reference) can instantly find either of the others without the intervention of catalog or index. The call-number is given also on the accessions book, and on the back of the book. If the expense of gilding call-numbers is too great, the Van Everen printed numbers may be used till the book is rebound, when the call-number is gilded permanently on the back, for in this system the call-number remains the same thru all changes of buildings, arrangement, or catalogs.

The necessity of changes in the ordinary system, and the great difficulty of tracing all the cross-references, renders it quite impracticable to give the call-numbers in all places where they are needed. Even where given they must be written temporarily in pencil, in readiness for the changes that are sure to come; for, if printed, a new catalog, with its attendant expense and confusion, becomes necessary as soon as the opening of new rooms, or removal to new quarters, or the growth of the library disarranges the books.

There is a single alternative: to arrange the books regardless of subjects, and even then the numbers must be altered in nearly all changes of buildings or rooms. In our system the book is numbered once for all, and can change that number only by changing its subject-matter. Of course mistakes occur as in any system, but when found they are as easily corrected as in any other plan. Certainly there is greater hope that the work will be done well when it is felt that it is not to be done over again in a few years at the longest.

Parts of sets, and books on the same or allied subjects, are never separated as they are sure to be, sooner or later, in every library arranged on the common plan, unless it be frequently re-arranged and re-cataloged. The great expense of this re-cataloging makes it impracticable except for a few very wealthy libraries. In this system the catalog and book numbers remain unchanged thru all changes of shelving, buildings, or arrangement. In addition to its own peculiar merits, this plan has all the advantages of the card catalog principle and of the relative location, which have been used and very strongly approved by prominent libraries.

[Since the invention of the translation systems by which the author's name is represented by its initial with the rest of the name translated into numbers, (e. g. Freeman would be F 87,) most libraries prefer to arrange the books under each class number alfabetically by authors. This keeps all the works by the same author together, and in large classes enables one to find any book redily without consulting the catalog.

A third arrangement of the books under class numbers is chronologically by dates of first publication. Its advantage is in presenting the historical development of the subject, the book written earliest being on the left, the latest work on the right, and then of any given book it is evident that all those on the left were written before it, all those on the right after it. In science this has special value, while in literature the author arrangement is better. A translation system of dates makes the numbering of the year more compact and satisfactory.¹

It is entirely practicable to use two or even all three of these methods at the same time in the same library, one peculiarity of the system being the ease with which it may be adapted to almost any special circumstances. In fact, the author uses the chronological system in science where its advantages are most markt; the alfabetical system in literature where authors' names outrank dates, and the old accession order plan as described above, in the Phoenix Library, which is no longer added to, and therefor the extreme simplicity of the 1, 2, 3 order is secured without any sacrifice.]

Thus all the books on any given subject ar found standing together, and no additions or changes ever separate them. Not only ar all the books on the subject sought, found together, but the most nearly allied subjects precede and follow, they in turn being preceded and followed by other allied subjects as far as practicable. Readers not having access to the shelves find the short titles arranged in the same order on the Shelf Catalog, and the full titles, imprints, cross references, notes, etc., on the Subject Catalog. The uncataloged pamflets treating of any subject bear the same class number and ar arranged on the shelves immediately after the books of each section, [or by many in exact place as if bound.]

For various methods of arranging pamflets, see various uses at the end.

Thus every specialist has his own special library. If he be a student of science in general, he is sent to class 5; if his department be zoology, his library is 59; if his specialty is shells, he finds all the

¹ Full explanations of the best methods for both arrangements can be had of the publishers of this work.

works and references on that subject in library 594. Whether there be a specialist to watch it or not, every subject thus being a library by itself, shows at once resources and wants as no catalog can show them. A catalog cannot be made that can satisfactorily take the place of handling the books themselves. Of course this advantage weighs most in a college or society library, where many go to the shelves; but even if librarians only are admitted, close classification is of exceeding value. The desirability of such classing is never questioned, only the practicability. With our plan it is comparatively easy.

Another great advantage of this plan is the aid it affords the scheme of endowing special departments. One specially interested in any subject can often be induced to endow that subject with a sum of which the income shall each year buy all the best books that appear on it.

If John Doe is specially interested in the Opera, and the Library says to him, "Give us \$1000 as an endowment of 782, and we will call it the Doe Library of Dramatic Music. We will put in it all that we now have on that subject, and each year the total income of your endowment shall be spent on the best books obtainable on your subject. The name will appear on each book-plate and in the class catalog, at the head of the collection and in a fitting label, or tablet over it on the shelves. There will be found every book, pamphlet, newspaper clipping or ms. that the library has or can get on this subject. Gifts from others will be placed in the Doe Library, the donor's name being given on the book-plate, and for generations to come every person interested in the Opera will be grateful for your foundation." In this way 782 is assigned to John Doe, and his pride is stimulated in developing it. If another man with larger means and interest will endow the whole subject of music 780, there is no difficulty or impropriety in including 782, the Doe Dramatic Music Library, as the second section of 780, the Roe Music Library. This suggests one of the most promising fields for development, for almost every library has among its readers some specially interested, who if properly approached would endow some topic, even if a small one, and this relative location with its definite number expressing just the ground covered, will be of the greatest service in working up this plan of special endowments.

SIZES ON SHELVES.—The single digit occasionally prefixed to the book number—e. g., the 3 in 421-3-7—is the nearest height in decimeters of books too large to be put on the regular library shelves, which are only 25 centimeters apart. The great mass of the library consists of 2-decimeter books, [i. e. books between 15 and 25 centimeters in height,] the size numbers of which are omitted. Books from 25 to 35 centimeters in height have 3 prefix to the book number, and are

found on the bottom shelf of each range. The larger sizes are prefixed with 4, 5, etc., and are found on the special shelves provided, in order to avoid the great waste of space occasioned by locating very large books on the same shelves with small ones.

By the use of size numbers the greatest possible economy of space may be secured, for the size distinction may be made for every inch or even less if desired, and this without additional labor, as it will be seen that the size figure, when introduced, requires one less figure in the book number, and so may not increase the number of digits as would at first appear.

e. g., the last history of England may be 942.118, (118th book of regular size.) The next may be too large for the ordinary shelves, and instead of being numbered 942.119, takes the size number 3 and is 942-3-1 (1st book, size 3). Thus the book number starts anew with each size number, and in some cases even less figures are used because of the size distinction.

But as the books can be put in only one place, the closer the classification is made by sizes or colors of bindings in order to make a fine appearance on the shelves, the less closely can it be made by subject matter; and it is much more important that books be grouped by their intellectual rather than by their physical distinctions. The desire to make handsome shelves is giving way to the desire to make useful shelves, as surely as the architect's library with its fine vistas of books is giving way to the librarian's library, where the books can be produced at the desk in less than one-half the time required in the more beautiful building.

In a popular library where very few books are above ordinary size it is best to disregard the size number entirely. When a book is too large for the shelves, a wooden dummy costing five cents can be put in its place, with the location of the volume itself penciled on its side. The few large books will be in a very few classes; newspapers, cyclopædias, and atlases will include most of them, and a single dummy in each class points out the location of all the extra large books. The size number, however, causes no confusion and serves an excellent purpose in a library where there are a great many large books. It should be written between the class and book numbers. The volume number is written as a sub-figure to the book number.

[Most libraries have abandoned the close distinction of sizes. It is true that a little space is saved, but at far too great a cost. Every distinction of sizes makes a parallel classification. If the books are grouped into five sizes, one must look in five places before he can be sure of having seen all the books. The best method is to ignore size if the book will go on the shelves, but if it is a physical impossibility to put it

on the shelves, a wood dummy is put in its place, and on the blank on its side is recorded plainly the larger shelf where it can be found.

The regular shelves should be fully 25cm. apart, so as to take all octavos and smaller books.]

ARABIC NUMERALS.—The Arabic numerals can be written and found quicker, and with less danger of confusion or mistake, than any other symbols whatever. Therefor, the Roman numerals, capitals and small letters, and similar symbols usually found in systems of classification, ar entirely discarded, and by the exclusiv use of Arabic numerals in their regular order thruout the shelves, classifications, indexes, catalogs, and records, there is secured the greatest accuracy, economy, and convenience. This advantage is specially prominent in comparison with systems where the name of the author or the title must be written in calling for or charging books and in making references.

Some prominent librarians admit the great superiority of the relativ location for college and society libraries, but urge with force that in the public library, where so many thousand volumes must be called for, found, and charged, the added labor and danger of confusion involved in giving the author's name insted of a book number make the system undesirable. But by substituting the book number for the author's name in the relativ location every numeral is used from 1 upward without limit, while in the absolute location, where the shelves hold only 25 to 40 volumes, the remaining numbers 60-75, which might be written with two digits, ar not used, and more figures ar necessary in the shelf number. The library records ar simply a mass of call numbers, constantly written and printed in catalogs, shelf lists, indexes, etc. A saving of a single figure in the book number is therefor a matter of importance.

[Any system of catalogs may be used with this scheme. The form oftenest adopted as best is outlined here for convenience of reference. See p. 48, Variations.]

CATALOGS.—In both the Author's Catalog and the Subject Index, brevity has been studied because of the economy, but more because of the much greater ease of reference to a short title catalog.

The custom of giving full titles, etc., under authors, and only references or very brief titles under subjects, has been reverst. A reader seeking a book of a *known author*, in the vast majority of cases wants simply the number by which to call for it, and can find it much quicker in a brief title catalog. In the rare cases where more is needed, the class number refers instantly to all these facts on the subject cards. On the other hand, the reader seeking books on a *known subject*, needs the full title, imprint, cross-references, and notes, to enable him to choose the book best suited to his wants.

[While it is as easy to use the dictionary catalog with this system as with any other, the conviction of the author grows with every year's added experience and study, that the common dictionary catalog is inferior to the clast, for nearly all practical purposes. The dictionary arrangement, however admirable for an index, if used in a catalog must give results very unsatisfactory to the student, or else very expensive to the maker.]

The failure of the dictionary plan to meet the requirements of the scholar has been often pointed out. While it is most admirable for an index, there still exists much of the same need of a good subject catalog as at the first. No one questions the immense superiority of a satisfactory clast catalog. But the difficulties in the way both in making and using such a catalog have been so great that there has been a growing feeling among practical librarians, that notwithstanding the great advantages of a good clast catalog, the idea must be abandoned as impracticable. Still, many eminent authorities have ably argued that the poorest clast catalog is better than one unclast, and that any use of such a catalog is in itself a lesson in bibliography.

The subject index is really a skeleton of a dictionary catalog. Instead of giving the book titles under each head, the number refers to all those titles in a way so simple and direct that it will hardly be criticised. The index may be made on any of the various dictionary plans, with all the advantages it may possess. To us the simplest seemed the best. We have given only very short headings in this index, but it is probable that one will be prepared, giving a brief indication in all doubtful cases of the standpoint taken in assigning the class number. We therefore claim to unite the advantages of the dictionary and clast catalogs, not by mingling them together, and so losing much of the simplicity of one and as much of the excellence of the other, but by really using both, each with its own merits. Only one set of titles is needed, for the class numbers make them available for both catalogs.

The Subject Catalog is a full title Shelf List on cards and is for the use of the public. The Shelf List is a short title Subject Catalog in book form, made of separate sheets laced into an Emerson binder, and is for official use. [The L. B. Shelf Binder is now preferred.] We thus have, without extra labor, both full and short title Subject Catalogs and Shelf Lists. The public Author's Catalog is a printed volume; the official Author's Catalog or Index is on cards. As a result, each of the public catalogs is checked by an official catalog; each of the card catalogs by a book catalog; each of the brief title catalogs by a full title catalog; — an advantage that will be appreciated by all librarians desiring accuracy in administration and catalogs.

[If necessary to economize on the above system, the Author Index on cards may be made a public catalog, thus saving the expense of the printed catalog. If the Shelf List is made public it is a very useful tho brief Subject Catalog. The Author Index and Shelf List ar, however, necessities of the simplest system. The most useful class-lists of any subject may be made by simply printing the titles under its class number in the subject, or shelf catalog, according as full or brief titles ar wisht.]

CHARGING SYSTEMS.—Thruout the catalogs the number of a book shows not only *where* it is, but *what* it is. On the library accounts the character of each person's reading is clearly indicated by the numbers charged, and the minutest statistics of circulation in any subject ar made by simply counting the call slips in the check box, and recording the number against the class number in the record. Each box represents a division, and in large libraries this is subdivided. The whereabouts of any book wanted, or the amount of use of any subject, is seen at a glance.

The claims of the system as in use with us may be summed up as follows : Compared with other systems it is less expensiv ; more easily understood, remembered, and used ; practical rather than theoretical ; brief and familiar in its nomenclature ; superior to all others in arranging pamphlets, sale duplicates, and notes, and in indexing ; susceptible of partial and gradual adoption without confusion ; more convenient in keeping statistics and checks for books off the shelves ; the most satisfactory adaptation of the card catalog principle to the shelves. It requires less space to shelve the books ; uses simpler symbols and fewer of them ; can be expanded without limit and without confusion or waste of labor on both catalogs and shelves or in the catalogs alone ; checks more thuroly and conveniently against mistakes ; admits more redily numerous cross-references ; is unchangeable in its call numbers, and so gives them in all places where needed, as given in no other system ; in its index affords an answer to the greatest objection to clast catalogs, and is the first satisfactory union of the advantages of the clast and dictionary system.

Some prominent opponents of clast catalogs hav admitted that the Subject Index, in deciding where to class a book at first, and where to look for it ever afterwards, has removed their strongest objections. Certainly it would be impossible to make an Index more cheaply or more easy of reference, it being a single alfabet, of single words, followed by single numbers.

The essential character of the plan has remained unchanged from the first. Doubtless other improvements are still possible, and it is hoped that users of the scheme will call attention to any proposed change in the naming or arrangement of the headings, or to any omission which should be supplied in the Subject Index.

Before printing, the plan was submitted to quite a number of librarians for criticism. Among the hundreds of points raised as to its practical workings and usefulness there was only one in which it was not shown to be equal or superior to any other system known. This objection applied only to the arrangement on the shelves; not at all to the catalogs or indexes. It was, that in this relative location, a book which this year stands, e. g., at the end of a certain shelf, may not be on that shelf at all another year, because of the uneven growth of the parts of the library. This slight objection inheres in any system where the books are arranged by *subjects* rather than by windows, doors, shelves, and similar non-intellectual distinctions.

In this hurriedly prepared account of his plan, the author has doubtless failed to meet many objections which may be raised and which he could easily answer. He would therefore ask the privilege of replying personally to any such objections, where they arise, believing that it will be possible to answer, if not all, at least a very large proportion.

The labor involved in preparing the Classification and Index has been wholly beyond the appreciation of any who have never attempted a similar task. Much valuable aid has been rendered by specialists in many departments, and nearly every member of the faculty has given advice from time to time. Among the many to whom thanks are due, special mention should be made of Mr. C. A. Cutter, the librarian of the Boston Athenæum, Prof. Ezra Abbot and John Fiske, of the Harvard University library, for valuable suggestions and appreciative criticism. While these friends are in no way responsible for any remaining imperfections in the scheme, they should have credit for many improvements which have been made during these three years of revision.

The three years' trial to which it has been thus subjected has more than justified the claims of its friends, and it is now printed with the more confidence on this account. It has been kept in manuscript up to this time, in order that the many minor details might be subjected to actual trial and modified where improvement was possible.

[In the past nine years over one hundred specialists have assisted in developing the scheme. Among these are many well-known names. To all a most cordial acknowledgment is made. Without such assistance, all of it gratuitous, the present edition could not have been made, for no one mind has the technical and special learning absolutely necessary

in filling the minute heads. Indeed, in many subjects the author's share in the work has been limited to the technical adjustment to our scheme and numbers of the material prepared by specialists.

In all the work from its first publication to the present, the most extended and most valued assistance has come from my college classmate, associate and friend, Mr. Walter Stanley Biscoe, who was my first assistant in the Amherst College Library, in the charge of which he succeeded me, only resigning to accept again in 1883 the place next to me in the Columbia College Libraries, where he is now Librarian in charge of Classification and Catalogs. Of the rare unselfishness and loyalty with which he has constantly supported me, giving without compensation time needed for rest and recreation, to advancing work in which he shared my interest, the fitting record is inscribed in this book which best represents his service. It is a little book, but it came not forth except by grievous labor.]

In his varied reading, correspondence, and conversation on the subject, the author doubtless received suggestions and gained ideas which it is now impossible for him to acknowledge. Perhaps the most fruitful source of ideas was the *Nuovo Sistema di Catalogo Bibliografico Generale* of Natale Battezzati, of Milan. Certainly he is indebted to this system adopted by the Italian publishers in 1871, tho he has copied nothing from it. The plan of the St. Louis Public School Library and that of the Apprentices' Library of New York, which in some respects resemble his own, were not seen till all the essential features were decided upon, tho not given to the public. In filling the nine classes of the scheme the inverted Baconian arrangement of the St. Louis Library has been followed. The author has no desire to claim original invention for any part of his system where another has been before him, and would most gladly make specific acknowledgment of every aid and suggestion were it in his power to do so. With these general explanations and acknowledgments he submits the scheme, hoping it may prove as useful to others as it has to himself.

MELVIL DEWEY.

AMHERST COLLEGE LIBRARY,
June 10, 1876.

Such additions to the introduction of 1876 as were made for the second edition of 1885 hav for convenience of users been scattered by topics thru the pages above, enclosed in brackets.

M. D.

COLUMBIA COLLEGE LIBRARY,
August 10, 1885.

CHANGES FROM FIRST EDITION OF 1876.

For the convenience of users of the first edition, tables below in numerical order indicate all the changes made in the scheme since its printing in 1876. Merely verbal changes and additions of qualifying, explanatory and synonymous words, not affecting the class numbers, are not noted, nor the great number of subdivisions. If a first edition be altered by the tables below, it will be in harmony with the present edition, though not as full or clear. Some users have mistaken the meaning of certain heads which are now made clear by the use of different words, though there is really no change in the assignment of numbers. In frequent cases some topic omitted before is now assigned to its most nearly related head and printed as a catch-word after it.

The 10 classes remain the same. In the 100 divisions there are two changes, 020 and 810, and four new divisions are added on blank numbers. To correct the page of divisions, make the blank 070, Newspapers; 080, Special Libraries; and 120, Other metaphysical topics. Move Book Rarities from 020 to 090, and make 020, Library Economy, thus getting it next to 010, Bibliography, and putting at the end, Rarities, which are usually kept by themselves in separate cases; change 810 from Treatises to American Literature, and the Divisions will be revised.

A better arrangement of Minor Languages, both in 490, Philology, and 890, Literature, changes the place of some languages under these heads but does not affect the division heads themselves. These minor changes appear in the table of section changes below.

No change has been made unless it was clearly proved that the advantages would compensate for the labor. In most cases a comparison of the old and new headings will make plain to any one familiar with the subject why it was best to change. Additions have been made by filling in blank numbers or enlarging the scope of topics.

Note that the changes are much less than they would appear by the tables, because these record the same change in the different places for convenience in checking up, and the heads changed are with few exceptions those under which few books will be found numbered.

An examination of the shelf-list under these numbers wholly or partly moved will show that the labor of adapting a library already numbered to the new edition is much less than at first supposed: e. g., to change Criminal Law from 345 to 343. The labor of classification is already done. It is only mechanical work to alter the 5 to a 3 in each place that the number occurs.

In other cases a separation must be made, and then the work is mechanical; e. g., American Literature mixt with English must be pickt out, then the second figure 2 changed to 1. The first and third figures remain the same.

If the numbers agree with the new tables, the great subject index can be used and the various charts, shelf labels, card guides, printed notes, etc., etc., which ar in preparation, can be adopted at once with so great a saving of time and money that few librarians who examin the question thuroly will doubt the wisdom of making the necessary changes so that the first three figures shall agree with the index.

Whether it will pay to use the subdivisions will depend on circumstances. In some libraries they would be invaluable. In others, while very useful in showing the scope of the subjects and in making cross references, notes, etc., it is doubtful if it would be wise to go over the library and add the sub-sections. See the note on p. 65, on the extent to which the minute divisions should be used.

Librarians making the necessary changes for the revised edition need not fear that a series of editions hav begun each of which will call for such changes. The changes here submitted ar the accumulation of twelve years' experience in using the system. They hav all been very carefully considered, and while the first edition was in its nature tentativ, this one may be considered as having the numbers settled after sufficient trial and not likely to be again altered, tho of course certain subjects not yet subdivided will in due time hav subdivisions added, and suggestions from specialists ar invited.

If the old numbers ar used without change, the new index must be altered in ms. to agree or a new edition printed. Either plan involves labor or expense as great as to make the changes, and when finisht one is still out of harmony with the main body of users and unable fully to utilize their labors in catalogs, notes, bulletins, etc., and specially must constantly alter or make for himself the many accessories of the system. All users ar therefor strongly advised to alter their numbers to conform to the 1000 section numbers of the present edition. The gain from the changes will usually be obvious in examining the tables of headings at these numbers.

Parts of topics hav been transferred to other numbers from:—

040 to 080	327 to 323	449 to 447	966 to 967
050 to 070	333 to 332	628 to 622	976 to 975
191 to 192	342 to 350	738 to 739	977 to 978-9
288 to 289.1	348 to 349	774 to 773	

Topics are transferred entire from one number to another.

012 to 014	349 to 347.93 and 4	583 to 716
013 to 091	352 to 353.2	584-9 to 581.9
019 to 020	354 to 352.2	622 to 526.9
020 to 090	362 to 267 and 256	629 to 620.8
155 to 156	367 to 331.88	668 to 669.9
156 to 155	391-3 to 390	673 to 666
197-8 to 189	394-9 to 914-9	678 to 677
238 to 220.1	408 to 408.9	746-9 to 745
244 to 264	491 to 495	753-6 to 759.3-9
346 to 264	492 to 493.1	759 to 750.8 and 708
247 to 264.7	493 to 492	776-8 to 771
249 to 244	494 to 491	789 to 780.6
253-9 to 252	495 to 491.5	810-19 to 808.1-9
264 to 265.1	496 to 491.6	828, 38, 48, etc., to 827, 837, 847, etc.
267 to 266	497 to 491.7	829, 39, etc., to 828, etc.
284 to 285	498 to 439	891-9 like 491-9
322-4 to 321	515 to 513.22-5	908 to 902
329 to 320.4	and 516.22-5	912 to 911.3 and 912.3
334 to 332	518 to 516.8	913 to 910
343 to 345-7	525 to 524	972 to 971
344 to 347.8	553 to 551	975 to 974
345 to 343	574 to 591.4	978-9 to 972
346 to 347.7	577 to 576.1	
347 to 344	582 to 582-9	

New heads are inserted or old ones enlarged in scope at:—

012	197	273	332	437-9	582-9	753-6	889
013	198	284	333	447	591	759	890-9
019	208	291	334	479	622	771-8	908
020	219	293	343-7	489	627	789	912
070	238	307	349	491-9	628	794-5	913
080	246	308	352-4	508	629	808	957
101	247	313	362	513	655	810-19	969
108	248	321	367	515	659	829	972
114-29	249	322	375	516	663-9	839	974-9
137	253-9	323	379	525	673	849	
164-9	264	324	391-9	551	678	859	
174	265	328	408	553	739	869	
189	267	329	427-9	577	746-9	879	

VARIATIONS PRACTICABLE IN USING.

Not a few users have assumed that adoption of the Decimal Classification and Relativ Index carried with it other parts of the system which the author had adopted at Amherst or Wellesley or Columbia. In fact, the plan in each of these college libraries differs somewhat from both the others, and if adapting it to a free public or private library greater variations would appear, for the special constituency, circumstances, and resources of each library must be considered in deciding what is best for it. This decision should be made by some one familiar not only with the library and its needs, but also with all the methods of any merit and the comparative ease and cost of introducing them into any given library.

These brief notes will show what is essential and what optional with the user who adopts the so-called "Dewey System."

1. What is the System? It is a Relativ Index (for description see preceding pages, 31-35,) used with a subject classification, so numbered or lettered that reference will be compact, accurate, and quickly made.

This was the invention, and anything beyond this is merely the application of this plan with various helps and accessories. Whoever uses a subject classification with a relativ index (i. e. an index in which the one entry will index a book in the ordinary way and at the same time index shelves, cards, clippings, or any other literary material) is using this system.

2. Best known Form of the System. While the author has devised and experimented with several different plans of classification and notation by means of numbers, letters, and combined numbers and letters with bases of 35, (the form accepted by Mr. Cutter and now being admirably worked out in his Boston Athenæum classification.) 50, 100, and 150, yet none of these have seemed good enough to warrant fully working out and publishing the details, except the scheme here printed, based on Arabic numerals and our common arithmetic in its simplest form. It is this special form of the system that is meant in most references to it.

Full discussion of these various forms will be found elsewhere. The adoption of this for general use is based on the fact that no one ever complains of a classification system being too simple, while there is very great danger of the complaint of complexity. These numerals, 1, 2, 3, etc., are the simplest thing known to the human mind, and so reach the limit of simplicity.

The index is the simplest application of the next simplest thing known, viz., a, b, c, etc. On this use of the two simplest sets of symbols, with their common power, is based the reputation of the plan as the simplest yet proposed.

3. Decimal Form of the System. In selecting this form, the user may adopt the heads filled out by the author, or fill out a new set for himself and alter the index numbers to correspond. This involves labor and cost vastly beyond the dreams of any person who has not tried exactly this work. The time actually spent on the tables as here printed, by various competent workers, would aggregate several years and the cost some thousands of dollars. The uniform and urgent advice of those who have tried this work is to adopt a poorer scheme already made rather than undertake so herculean a labor. When done, the maker may possibly be better suited with it, but it is doubtful if many others will be. It is vastly wiser for any man whose time is of the slightest value, to use it in something more practically useful to himself and his library than in trying to construct a "satisfactory" scheme of classification. No one yet ever wholly suited himself or any one else, and probably no one ever will. By adopting a scheme already worked out he saves much time and money, gains the immense advantage of using a system in common with many others, so that he may utilize their labors and investigations and share with them in the economy of co-operation.

4. Adjustment to Special Local Requirements. Having decided to adopt the system in its decimal form and as worked out and printed, we come to this first practical question. Certain variations are practicable, and in some cases useful and desirable, and are noted in 5 below. But the inexperienced user is very likely to feel entirely competent, after once reading the tables, (in fact, without reading more than a single page regardless of its bearings on hundreds of other places, and without so much as looking at the author's explanations,) to institute a series of "improvements." Experience proves that nothing could be more disastrous to the success of the plan. It seems a simple matter to change a topic to a line higher or lower, but in some cases this may affect over 100 different entries in the index, and there is no possible way to be sure of correcting them except by examining each one of the thousands of headings. We have had frequent cases where proposed changes have been carefully studied out and submitted as improvements, and have been able to show on our old records where the exact form proposed was adopted and used till considerations which had not been foreseen forced us to change to the form as printed. Even after years of experience one is not safe in pronouncing on an apparent improvement.

Here again those who have used the system longest have been misled into adopting changes which on trial they were compelled to reject, going back to the original form at the expense and confusion of two changes. Even in introducing subdivisions on blank numbers, which would seem a very simple thing to do, repeated mistakes have been made, and after it was too late to correct them the makers have regretted their neglect to consult with the author and secure the advice and co-operation of those most familiar with the manifold inter-relations. Even were the independent divisions equally good, their numbers do not agree with those which will be put in the printed tables and the index, and every copy must be corrected in ms. before it is usable. The only safe rule is to make no changes or subdivisions without submitting them to the author, who will gladly advise on such matters without charge, not on the ground of any superior wisdom, nor even because of larger experience in this special work, but because in this way only can it be learned if numbers have been already assigned with different powers. The user who adopts the printed form avoids the criticism sure to be aimed at any possible scheme. The moment he makes one "improvement" he must defend all the heads or alter them to suit each critic. Much time is saved by saying that the scheme is used as printed and blunders are the author's, not the user's. A list of changes that have been made by others without such consultation was written for this note, but is omitted lest it should seem invidious. They illustrate how easy it is for able men to make what no one questions after explanation to have been outright blunders, in improving and adding to the printed scheme. The author is always grateful for suggestions from anyone, and having already given so much time in the effort to improve this system for the common good of all users, he invites the co-operation of those interested in completing needed subdivisions and eliminating any errors that may remain either in tables or index.

5. Different Notations where Changes are made. If the reasons that led us to adopt the form printed are not conclusively to another, we wish to remove any obstacles to his use of the system with such changes as shall satisfy him. To protect other users from confusion, the publishers insist, as the copyright entitles them to, that our numbers shall not be printed with changed meanings without some clear indication of the fact in the number itself. This can be readily done by using a letter, or some other character than the ten digits, to mark changes: e. g., if you wish a different set of subdivisions under any number, make it out to suit and number it a, b, c, etc. It will arrange in its exact place and exact order without difficulty, and no other user of the system will be confused by the numbers. In the index, cancel the 1, 2, 3, etc. you have discarded,

and write in the a, b, c, etc. adopted; i. e., when you use our exact numbers, use also our meanings for them as index. When you add any features of your own, add new numbers of your own that cannot be mistaken for ours, using of course as many of our figures as are not changed: e. g., you may want a new heading next to 551.34, Icebergs, which cannot properly go as decimal .1. Mark it 551.34a, and it arranges as wished. If you wish to change a head from one place to another, cancel it where it stands, and *leave that number blank* in the tables. Then insert the head in its new place as above, as if it had never been in the tables.

This plan of introducing letters or other symbols wherever each user pleases, will give all needed freedom to the personal equation and the desire for originality, and meets the real want for peculiar classification in peculiar cases.

6. Letters Recommended. A few cases are noted where it may be best to modify class numbers by letters as above. In popular libraries half of the circulation is often in English prose fiction. A great saving is effected here by omitting the 823 entirely and printing merely the book number, it being understood that if *no* class number is printed it means 823, which is vastly the commonest. After this, the great circulation of juveniles is a good place to economize, if they are kept separate as is usually thought desirable in popular libraries. Mark juvenile fiction J for its class number. Then J45 is the 45th juvenile story. Other juveniles may be included with the fiction in the same series, or may better be distributed with the regular subjects, having a J prefix to their class number to indicate character. Then a "Little People's History of the U. S." is J973. The third and best plan is to keep all the J's together, marking fiction J, and other works with J followed by the class number as in plan second, the only difference being that there J973 is put with 973, while in the third plan it is put with all the other J's between J972, Juvenile history of Mexico, and J974, Juvenile history of New England. The same marking is used for both these plans, and one can be changed into the other by simply distributing the books the other way and telling the attendants that it has been done.

Biography. The same plan is recommended for this large class, as to the best treatment of which there is great difference of opinion.

Beside the plan printed there are two others largely recommended, viz.: to put all biographies in one alphabet of names of *persons written about*, thus making the shelves a duplicate of the biography class list, which must be arranged in this way, since few readers know just what group to consult in a class list. If this is done, all the books are marked

simply B for class number, and the Cutter number indicating the subject follows as the book number ; e. g., the life of Grant is B, G75. This is most compact for charging, and preferred in popular libraries of large circulation.

The third plan is to distribute as far as possible biography with the subject it best illustrates, leaving of course under 920, lives not bearing specially on any subject : e. g., all lives of musicians go under 780 and its subdivisions ; the life of Wagner being 782.1 instead of 927.821 as in the tables. As in juveniles, it is well to substitute B for the 92, marking Wagner's life B782.1. Then it can be arranged with 782, or all B's can be put together, thus giving exactly the present arrangement without changing a figure. This treatment of fiction, juveniles, and biography illustrates the principle. Its other chief application is for language collections. Some libraries have a constituency not reading English, and so need a parallel library in German or Swedish, or French, etc. This is easiest made by simply prefixing the initial to the class number. If to be arranged, as with us, in one series of subjects, this may be ignored, or all the German books on each subject may be grouped under G at the end of each class number. The German parallel library is made by simply putting all the G's together and arranging by class numbers. The initials used are G, German, F, French, I, Italian, Sp, Spanish, Sw, Swedish, Dn, Danish, Du, Dutch, N, Norwegian, R, Russian, W, Welch, A, Arabic, etc. Where only one language is so marked in a given library, only one letter should be used so as to avoid an extra letter in charging ; e. g., S will answer either for Spanish or Swedish if used in only one sense. This plan has given great satisfaction in actual use ; e. g., in the Ottendorfer Branch of the N. Y. Free Circulating Library.

The same principle can be applied also in combining each language with its literature, if it is preferred to abolish the important class, Philology, and make it simply an appendix to Literature, and the reverse would hold true if a philologist wished to abolish Literature and make it an appendix to Philology.

Reference Library. To separate the books most needed, the best plan is to mark R before the class number and arrange the books together as if it were a Russian library. When the books are to go into the general collection again, a line can be drawn thru this letter. In the same way it often happens that a general private library is given on condition that it be kept together ; e. g., the Phoenix library of Columbia College. This has P prefix to the class number and thus constitutes a parallel library by itself. An initial is usually better in

such cases than a * or similar mark, since the initial helps the memory and is just as brief and cheap. The same plan applies of course if the library has an "inferno" for books not used or circulated without permits; or has a more distant storage where books worth keeping but seldom called for can be arranged in a parallel library.

Still another provision for all these special libraries is made in this edition in 080, 8 being the regular number for general collections which cannot be separated because of binding or conditions of gift. But insted of the three figures in 080, a single letter indicates the special collection, and it is a simple matter to lern the location of the few special collections of any one library. The numbers 1-99 are also blank in the regular scheme, and if wisht can be assigned to special use without confusion with the index, for the initial 0 is there printed for all numbers before 100.

7. Contractions for Specialists. The system is often used by specialists for very minute work when the decimals ar run out to six or eight places. While the theory is better to write all these figures, thus showing the relation to the universe of knowledge, there is no practical gain to justify the labor. A specialist working on the "Swedish poetry of the age of Gustavus" can use a single letter or figure insted of the full 839.715 and save five characters in numbering each note. If a figure is used it wud naturally be the last one of those omitted, in this case 5, unless the user had alreedy used that number for something els. A body of such notes can be inscrted together in their place in an index at 839.715, with a colored card to mark the special groups, with little danger of confusion, still many will prefer the theoretical completencess of writing a full index number for every separate slip.

8. Use of Alfabet or Chronology for Final Subdivisions. While our plan is decimal as opposed to the "dictionary system," we never hesitate to use the alfabet wherever that is more useful. Indeed, the main feature of our plan is its alfabetical index. There are not infrequent cases in minute divisions where it is economy to arrange alfabetically or by dates and without using a translation system. This is specially true in index rerums and the notes of specialists. After the numbers hav been used as far as that is the most useful form, then either the name chosen for the head or the year can be inserted at the end; c. g., the towns in a given State, the individual birds or insects coming under one number, the names of men written about in biography, etc. etc. Some may prefer to adopt this plan in places where we hav chosen a grouping; e. g., in chemistry, to put all the metals in one alfabet under 546.3, insted of using the numbers 546.99.

Such use of the alfabet causes no confusion with the index, unless, as in the last case, it replaces heads already printed, in which case the first reference to it will make clear the change, and all the figures after the 546.3 where the alfabet commences can be cancelled after each metal in the index. Very likely, if this change is wisht, a more complete one will be made, viz., to put all the elements, non-metallic and metals, in one alfabet under 546. This plan has special value in this place, as new elements ar discovered from time to time, and others are found to be compounds; still we thot it valuable to hav similar metals group together for convenience of study, and to cover books written on the group as a whole, and we also thot it important to hav a number for rejected elements, because the literature and references about them remain and must be provided for.

9. Broken Order. Another common and often desirable variation is to break the sequence of the numbers, in order to get books most used nearest the delivery desk. Some assume that the adoption of this system involves keeping the whole 1000 numbers in strict sequence. That is its theory; but a higher rule, used everywhere with us, is to sacrifice any theory for a substantial gain. Practically it will seldom happen that it is not best to break the order of the classes. Often divisions will be best arranged out of numerical place,—e. g., 520 may be wanted in a room accessible at night; fiction and juveniles and biograpy are always wanted near the delivery desk, and in order ar as likely to come at the most distant point. Numberless local reasons may make a broken order important. There need be no hesitation in adopting it if enuf is gained, but there should be cards with clear statements of where each division starts. The page of Division heads is reprinted by the publishers, on cards with wide margins, for just this use. Opposite each division is markt its beginning on the shelves, and it is not difficult to vary the order as much as necessary. It is less wise to do this in the sections, nor is it desirable except in very rare cases, when a dummy is always inserted in the blank space. Of course the nearer the divisions run in regular order, 1 to 99, the easier it is for a stranger to find his way about.

This broken-order plan is the best for bringing together the philology and literature of each language without altering numbers or prefixing any letter. Let 420 be shelved just ahead of 820, 430 ahead of 830, and so for all languages, making the general note that all 400's ar shelved just ahead of the corresponding 800's, and remembering that after the main languages four or more figures ar required to indicate language alone, so that Portuguese philology goes between 868 and 869, Russian between 891.69 and 891.7, and Welch between 891.65 and 891.66.

10. Pro and Con Division of Topics. It is very useful in many cases to separate the books on a topic with strongly marked sides, so that either set of views and arguments may be seen by itself. This has been done in the subdivision in some cases,—e. g., 337, Protection and Free Trade. In others it is equally useful, and can be indicated by an added mark,—e. g., 324.3, Woman Suffrage. The number may be used for general works, giving facts, etc., and advocates and opponents may be separated by + and — for positive and negative, or by p and c initials for pro and con, which, though short, are too long for a circulating library to charge. In reference libraries, on cards, etc., most will prefer to write out *pro* and *con*, to distinguish the two groups. The order on the shelves is, of course, alphabetical, viz., 324.3, 324.3c, 324.3p; or if + and — are used, the usual order is followed: +, —.

These ten notes suggest the range of variations which may be adopted in the classification itself by users of the system. For book numbers deciding the order of material after it is grouped into its final classes, any of the various plans may be used. Descriptions and illustrations of the best of them are printed.

USES OF THE DECIMAL CLASSIFICATION.

Twelve years' use has shown applications for the system in many new directions. In administration nearly every department of work feels directly the great economy. None have been more enthusiastic in its praise than those using it for scrap-books, indexes, index rerums, and notes. In short, in every field of literary activity some one has found by trial that the system is a tool of wonderful labor-saving power, and the practical usefulness of the method has exceeded the most sanguine hopes of its early friends. Some of the most common applications are noted below, not as a complete list of its uses, but merely as suggestive of its really wonderful adaptability to all kinds of library and literary work.

On the Shelves. The system on the shelves is the simplest form of the relative location. Many libraries have adopted it for shelf arrangement, where catalogs recently printed, or large investment in another plan, made it too expensive to change anything but shelf arrangement. As in the card catalog system, there is room for indefinite expansion without devices or provisions. Space is the only requisite, and if the shelf room is exhausted, the floor space is equally good, except for the inconvenience of stooping. The very great advantages for use on the shelves are discussed elsewhere.

In the Catalogs. Its chief use is of course in the subject catalog on cards, though, as in the shelf list, an admirable subject catalog can be made on sheets as described below under *Index Rerum*.

Printed Subject Catalog. On this system, this is also the most compact and satisfactory in its use. Under each class number are given the resources of the library on that subject. For convenience, the name as well as the number of the subject is given in the heading; e. g. "513 Geometry." General notes are printed in finer type under general heads, and a brief index at the end shows where to open the book to find any heading. The class number is put in the place of the page number, so that any index on this system indexes any catalog.

Card Catalog. For this P size, $7\frac{1}{2} \times 12\frac{1}{2}$ cm., is best, as it gives room for notes that may be added as found during a series of years. Labels on the outside show what number begins on each side the drawer, and at frequent intervals inside zinc guides with class numbers and headings project 5mm. above the cards like the head lines in a printed catalog. The classification is thus mapped out on the tops of the cards, and reference is almost instantaneous to the immediate place wanted. For this catalog, guides with printed numbers and headings may be had as well as outside labels for the drawers and for the shelves themselves, this being one of the results of co-operation among the many libraries using the system.

In the Author Catalog and in the Accession Book. The class number in these two catalogs holds a very subordinate place, yet is constantly useful. In each it appears in a single column as in the Relativ Index; in one arranged strictly by authors' surnames, in the other, as strictly in the order in which the books chanced to be added. Where there is no subject catalog, one can rapidly pick out the titles in which he is interested by glancing down the column for the class number wanted. In the accession book, tables of the number of books added on each subject are readily made from this column. A glance at it also shows the character, by subjects, of the books added during any given period. Thus its uses are manifold, and chiefly should it be remembered that wherever this number occurs, in any connection, it tells both what the book is about and where it is shelved.

In the Shelf List. Here the number is most important. Each page bears its class number. On it, in columns, are given author's name and brief title, thus making the most compact and useful manuscript subject catalog possible.

By simply printing these lists at any time a subject class list of the best kind is made for any topic on which there may be present interest; e. g., if war breaks out with Mexico, interest is greatly stimulated and everything about Mexico is wanted. The librarian has only to open his shelf list to 972 and print it. This great gain is without the slightest variation from the form found best in its regular use as a shelf list for the yearly examination of the shelves for losses and misplacements.

In Charging System. Here as elsewhere it serves all the ordinary purposes with special advantages of its own. The check-box showing the whereabouts of each book off the shelves can be used in any system. Its peculiar advantage in our system of classification is that it always stands on the desk, a complete table of the books off the shelves in each subject. The slips in box 53 show just how many and what books are out in Physics; the slips under 823 show all the English novels in circulation, and who have them. Such a table of circulation always at hand and without an item of expense or labor, (for the check-box is necessary for other purposes,) is highly prized by all interested in the character of books read, and at no time has so much wise attention been given to educating the taste of readers in our public libraries as at the present. To convert this table into permanent statistics is little labor. An attendant counts the slips on each subject as often as may be wished, and the count against the class number on a sheet ruled to correspond with the divisions of the check-box into ten columns of ten squares each. This sheet is useful for various purposes in the decimal system. For statistics, one column shows the circulation of each of the ten classes; an entire sheet just holds the record of circulation for each of the one hundred divisions, or for each of the one hundred sections of any class. On the sheet, as in the check-box, each compartment represents a specific subject and the footing of the column a more general subject. If the compartment be used for sections, the footing of the column will give the circulation of the division; if used for divisions, the footing will give the circulation of the class; and if used for the classes, the footing will give the total circulation of the library.

In Cross References. In no place are the advantages felt so much as here. As a result, some users of the system are undertaking analyses and cross references to an extent not hitherto that practicable or hardly possible. Instead of writing a line or two, three or four figures tell more exactly just what the reference is, and the gain in use is greater than in recording and in space. The clearness and directness of the method aids wonderfully in this work. On the subject cards may be put references to periodicals, transactions, chapters in essays, etc., etc., in the most compact and usable form. We recommend giving not only the reference, but also the exact page on which it begins and ends, thus saving the reader's time and insuring that he finds what he seeks.

Re-cataloging. Amherst College Library in 1873 adopted the plan and at once commenced transferring the entire library to the new catalog. It was found entirely practicable to make the change gradually, as means allowed, without interfering in any appreciable degree with the circulation of the books. As no shelf in the library contained more than fifty books, the only distinction necessary to prevent confusion between the two systems in use at the same time was to omit the first fifty book numbers of each section, numbering, e. g., the first English Grammar 425.51, instead of 425.1. The attendants immediately recognized any book number above 50 as belonging to the new system, and no confusion resulted. The books are taken from the shelves for re-cataloging only as fast as needed; the new class number is immediately substituted for the old shelf number, and the books are placed in the classified portion of the library. When the old shelves are cleared the book numbers from 1-50 can be assigned as fast as books are received. As the shelf catalog is on laced sheets, there is nothing to be altered or rewritten. The new sheet for the books from 1-50 is laced in just before the others, and the order is as perfect as if it had been done at the first. No extra labor is required, and still the confusion and interruption of circulation incident to re-cataloging on other plans are avoided.

Adaptability. The system is so flexible that it adapts itself to almost any circumstances. It may be used in any one of its applications without the others, and with a proportionate result. It may be applied to the pamphlets alone, bringing order out of chaos, and solving this vexatious and vexing problem; or it may be used for the catalogs, leaving the arrangement on the shelves as before; or it may be applied to the shelves, while the catalog is on the dictionary or any other plan. This application to the shelves may be either with or without the book numbers. If without, the books are arranged on the shelves alphabetically by authors under each class number. For a private collection, or a library where the books are not loaned from the building, this last plan has some marked advantages. The books on any subject, by the same author, always stand side by side whatever the time of their reception; and what is more important, the author and subject being known, the exact place of the book can be found without catalog or index. On the other hand, the invaluable shelf list must either be wholly abandoned or kept on cards in order to retain the titles in place, thus sacrificing much of its accuracy and convenience for examining and verifying; and (a much more serious objection) in order to identify the book the author's name and frequently a part of the title must accompany the

class number on all the records, catalogs, and references. These objections, with the almost certain confusion of different authors of the same name, or very similar names, make the alphabetical arrangement almost impracticable for a circulating library. [Since the above was printed in 1876, translation systems have come into use, by which most of the objections to the alphabetical order are removed. Mr. J. Schwartz, Librarian of the N. Y. Apprentices, has the credit of devising this useful system, though the simpler form, made by Mr. C. A. Cutter, is generally adopted. One great advantage of these book numbers is that the same author has the same book number in every subject; i. e., the figures are significant like our class numbers and translate themselves into the name. Great practical mnemonic convenience results from this peculiar form of book number.]

Pamphlets. These class numbers applied to pamphlets have proved specially satisfactory. The number is written on the upper left corner and the pamphlets are arranged either in pamphlet cases with the books on the same subject, or on special shelves divided every 10cm. by perpendicular sections. As each pamphlet is examined when received into the library, it is the work of a single moment to pencil on it its class number. There is no expense whatever incurred, and yet the entire pamphlet resources of the library on any subject can be produced almost instantly. The immense advantages of this plan over those in common use, both in economy and usefulness, will be appreciated by every librarian caring for a pamphlet collection. A catalog of authors may be made on slips if desired. The pamphlets themselves are the best Subject Catalog.

[A number of good devices for holding pamphlets have been brought out within ten years. The best is Clacher's. If something cheaper must be used, the L. B. cases are good. Still cheaper are those cataloged as C. C. Pamphlet Cases, and devised by the chief librarian for Columbia College. These are made of pasteboard, in three sizes, varying only in inside width, the height being the same in all. The thinnest is little more than a very heavy envelop, the thickest like the ordinary case. All are open at the back, but as that comes near the back of the shelf, very little dust can get in. They are labeled with class numbers in the three sizes, waste little shelf space, and are so cheap that they have been adopted with great satisfaction for distributing the pamphlets as if they were books. To put pamphlets on the shelves without some cover gives a very ragged appearance. They break down and get torn and

soiled, and experience is against it except in private collections little handled. The tendency grows to put all material under its class number in proper place, for the same reasons that have led to giving up division by size of books. One examining a subject likes to see *all the resources in one place.*]

Sale Duplicates. The same arrangement is admirable here. They are so constantly changing that a catalog can hardly be afforded, and a subject arrangement on any other plan than this is difficult to maintain. Still, it is very essential that there be some means of knowing what duplicates there are on any given subject. By simply penciling the class number on the books and arranging them numerically, it is possible to give this information more quickly and more satisfactorily than by any other method, and at the same time the least expense is incurred. The plan would be a great convenience to both dealers and customers, if applied to the miscellaneous stock of a bookstore. Very often a much wanted book, especially if not recently published, is reported "not in stock" when such an arrangement by subjects would have revealed its place at once. Specialists often find on the shelves books that they would never have ordered, but are glad to buy after an examination. Experience proves it a profitable thing for a dealer to have his books so arranged that each person may find those in which he is interested without examining the entire stock.

Scrap-books. Though for library use, the plan has proved of great service in preserving newspaper clippings in large envelopes arranged by class numbers; and more especially in taking the place of the common note-book and Index-Rerum. Slips of uniform size are used with the class number of the subject written on the corner. Minute alphabetical headings are used under each class number, the slips being arranged in numerical order like the Subject Card Catalog. Clippings and notes arranged in this way are at all times their own complete index, and have the same advantages over the common scrap and note-books that the Subject Catalog has over the Accession Book, in looking up the resources of the library on any given subject. Those who have tried this method are so enthusiastic in its praise that it seemed worthy of mention in this place.

[Experiments conducted in recent years hav resulted in several admirable devices for applying the system to scraps and index rerums. Ordinary envelops are not of proper material or pattern to giv satisfaction, but a special form (the "L. B. Scrap Box") is made meeting all requirements. Another convenient form is like a shelf-list, on special manila paper, perforated to fit the shelf-binders. The class number is printed on the upper outer corner, and clippings are mounted on the sheet as in a common scrap-book. When full, another sheet is inserted at the exact place. Thus perfect classification is kept up without blank sheets, and at the smallest outlay of money and trouble. This "L. B. Scrap Book" is for most persons the best form. The "M. D. Scrap Book" combines the great advantages of the envelop system with those of the pasted system. It is like the L. B. sheets above, with full-sized flaps opening on three edges. The sheet thus gives eight pages on which to mount scraps, and the flaps make a 20x25cm. pocket which holds more matter than one of the large envelops, and is very expansiv. This form, like the L. B., fits the shelf-binders. A fourth form much liked by users is the "Breed Portfolio Scrap Book," a series of 100 very strong envelops handsomely bound into a book for the shelves. It is used like the L. B. Box and looks much neater on the shelves, but does not allow of inserting extra envelops when one gets full. The first three forms are made by the Library Bureau, ar not copyrighted or patented, and any one may make them for himself if he can do it as cheaply as he can buy them, which is very unlikely, as in their proper form they are made of special materials and by special machinery not redily available.]

Index Rerum. By much the best form is the standard P size card or slip $7\frac{1}{2} \times 12\frac{1}{2}$ cm. The class number is written or printed on the upper left-hand corner very near the top edge. Any alfabetical subject-head is written at its right, and the notes fill the card below. There ar already devised and manufactured scores of devices for the convenient handling and storage of these slips; trays of tin, wood, and paper, boxes for the pocket and desk, pigeon-holes, sloping cases, drawers, card-rests, etc., etc. Space cannot be given to details here, but any one interested can get full descriptiv catalogs with illustrations, prices, etc., from the Library Bureau, Boston. Long study and experience lead the author to use the stock "L200" as the best for private indexes, etc. It costs only half as much as the "Br. 400," which is largely used for public library catalogs, takes only half the room, and gives great satisfaction. Dealers will naturally prefer to sell the higher priced Bristol, but the "L200" will suit most people as well and cost less.

Another admirable form is similar to the L. B. Scrap Book or shelf list, in fact, is simply a shelf-list without the printed headings and down lines. The subject number goes in the upper corner, and all notes on that subject are written on the sheet below. This book fits an ordinary shelf, has the advantage of a full letter-page in sight at once, and holds over five times as much as the P card. This form is highly recommended. Of course the system can be applied to slips or sheets of any size, but there are literally hundreds of accessories and conveniences exactly adapted to these two sizes which are used tenfold more than all others combined, and it is folly for one to begin on another size, thus losing the advantages of this uniformity. If intermediate sizes must be had, the ones most used and least objectionable are Billet 10x15cm., Note 12½x20cm., and *Ms.* 15x25cm. There are repeated cases where users of some other size have finally found it profitable to change to either the P, 7½x12½, or to the L, 20x25cm. even at the cost of re-writing many notes.

Note-books are best in this last described form. The much poorer method is to take a bound blank book and assign the class numbers in order, giving about the space it is that each will require, and when the pages so assigned are full, note at the bottom where the rest of the material may be found.

This has all the objections of the old fixed location as compared to the relative, and will hardly be adopted by any person who has ever seen the simplicity and economy of the shelf-list system.

Topical Indexes. The class numbers are used in indexing books read, usually by making the entries in the Index Rerum under proper numbers. The number takes the place of a series of words, and the results can be handled, arranged, and found much quicker because of the simple numerals.

The advantages that the system possesses for making topical indexes of collected works, periodicals, transactions, etc., will be evident to every librarian. These consolidated indexes may be arranged together with the card catalog of the books, or by themselves, as seems best in each case.

It would exceed the limits of this brief description to notice all the varied applications of the system. It is hoped that enough have been mentioned to show its wide adaptability to the wants of the librarian and the student.

RULES AND SUGGESTIONS FOR CLASSIFYING.

[Get a general knowledge of the scheme, learning the ten main classes, so that you can tell to what subject a given number belongs from its first figure without referring to the tables. Specific knowledge of minute divisions will come gradually, but rapidly, from use. Use the index freely, till thuroly familiar with the scheme.

The title, tho sometimes misleading, and always to be verified by the work itself, is usually of great help in deciding the character of the book. The author is supposed to choose it to indicate his subject, and unless there is reason to doubt it, it may fairly be trusted. Always examin the table of contents, which is the best guide to the true subject. To avoid mistakes, put by on an "under consideration" shelf, books you cannot locate, till you can examin more at leisure or consult some expert competent to decide their true subject and relation. Specialists ar usually glad to examin new books in their departments, enuf to class them. Old ones they know where to put alrely. After deciding what the book is about, locate this subject in the tables, either by looking at the subject in the index, or by using the tables directly,— for the beginner a longer process, which he can hardly trust with safety without subsequent referencce to the index. By locating by the tables alone, and then verifying your result by the index, you will more rapidly acquire knowledge of the classification, and facility in its use. To do this, decide first to which of the ten classes the subject belongs; then take that class as if there were no other, and decide to which of its ten divisions your subject belongs; then in the same way select its section and sub-section, thus running down your topics in the grooves, which become tenfold narrower at each step.]

Assign every book to the most minute head which will contain it

Assigning Class Numbers. In arranging books in the classification, as in filling out the scheme, practical usefulness must be esteemed the most important thing. Put each book under the subject to the student of which it is most useful. The *content* or the real subject of which a book treats, and not the *form* or the accidental wording of the title, determines its place. Following this rule, a Philosophy of Art is put with Art, not with Philosophy; a History of Mathematics, with Mathematics, not with History; for the Philosophy or History is simply the *form* which these books hav taken. The true content or subject is Art, or Mathematics, and to the student of these subjects they ar most

useful. The *predominant tendency or obvious purpose* of the book, usually decides its class number at once; still, a book treats often of two or more different subjects, and in such cases it is assigned to the place where it will be most useful, and underneath the class number are written the numbers of any other subjects on which it also treats. These *Cross References* are given both on the plate and the subject card as well as on the cross reference card. The various characters of different libraries necessarily modify the class numbers in particular cases. Any subject of which a library makes a specialty naturally "attracts" allied subjects. This influence is strongest in minute classification. To admit this variation, many subjects in the present scheme have two or more places, according to these different sides, — e. g., a book on "school hygiene" which a medical library puts under 613 has also a place in 371.7, where the educational specialist requires it. *Not only the tendency and scope of each book, but also the nature and specialties of each library, must be considered.* Small libraries will usually use the minute divisions beyond three figures only in certain divisions, like travel, parts of history, literature, etc.

If a book treats of a majority of the sections of any division, it is given the Division number instead of the most important Section number with cross references. [Unless some one of the Sections is so prominent as to warrant placing the book in it, a book on four or more sections is better classed with the general head.]

A volume on light, heat, or sound, is classed under the head most fully discussed, and referred to from the others; but if it treats also of mechanics, hydrostatics, and pneumatics, it is classed as 530, or general physics, although no mention be made of electricity, magnetism, or molecular physics.

It is one of the marked advantages of the plan that these cross-references, notes, etc. may be added from time to time as found convenient. It is necessary at first to find only the predominant tendency of the book in order to classify it. Cross-references are added when they are found necessary.

These numbers indicating more closely the character of the book should be added as rapidly as possible, and all specialists should be invited to call the attention of the librarian to every desirable cross-reference they notice in their reading. These numbers take little room, are easily added, and in most cases are very valuable.

Collected works, libraries, etc., are either kept together and assigned like individual books to the most specific head that will contain them; or assigned to the most prominent of the various subjects on which they treat, with cross references from the others; or are separated and the parts classed as independent works.

[This last practice is constantly growing in favor, and many of the best librarians now disregard largely the uniform bindings and "series" lettering, and, unless the contents of the volumes are so connected that they cannot be separated, class each under the most specific head that will contain it.]

Translations are classed with their originals. [Reviews, keys, analyses, answers, and other books about specific books, as a rule, are classed with the original book as being there most useful.]

Number of Figures used in Class Number. Decided according to circumstances in each library. In very small collections two figures might do till the growth required further divisions. But it would be economy and save handling the books a second time to use at least three figures at the first, even in the smallest collection, and in larger libraries all the subdivisions may be used for the same reason, tho' the number of books may not seem to justify it.

Remember that the question of the number of the books you may have on any subject has in this system no special weight. Being a relative location, the fact that you haven't a book on 20 consecutive topics wastes no space on shelves or in catalogs. The numbers are merely skipped. This plan not only does no harm but has the considerable negative value that looking for the number and finding it blank or skipped, shows that you have nothing on the subject, a piece of information second in value only to finding something, for one need no longer hunt. A library recently adopted the plan of putting all of the books of a division together where they had but few, e. g., all mathematical works were marked 510. It took just as many figures, cost just as much labor in most cases, and if a man wanted the one calculus in the whole library he had to hunt over the 150 v. in 510, when otherwise he would have found it instantly standing alone as 517.

The one objection to the close classing is that it gives a longer number to charge in a lending library. In a reference library there can be no question that the full sub-sections should be used, and where the short number is so imperative it may be well to add the sub-sections to the three figures, not to be used in charging, but as a guide to the contents of the book. Thus when the classifier has once examined it and found out just what it is about, the record is preserved for the benefit of others.]

TO USERS.

Tables. The first page of tables shows the ten Classes into which all topics are divided. The next page shows the nine Divisions of each of the ten classes, and is useful merely to get a bird's-eye view of the whole scheme on a single page. Then follow ten pages, one for each class, showing the nine Sections into which each of the nine divisions of each class are divided. These pages are to be used for a synoptic view on a single page of the scope of each class.

Following these three groups is the complete classification, which repeats, in proper order, all the classes, divisions, and sections with all the sub-sections given under each section. Beside the simple heads, synonymous terms, examples, brief notes, dates, and various catch-words are often added for the convenience of the user, who thus gets a fuller and clearer idea of the field which each number covers. Therefore all references to numbers should be looked up in the full tables of sub-sections, tho it be a more general head that is wanted.

Index. After the tables is an index, in which all the heads of the tables are arranged in one simple alphabet, with the class number of each referring to its exact place in the preceding tables. This index includes also, as far as they have been found, all the synonyms or alternative names for the heads, and any other entries that seemed likely to help a reader find readily the subject sought. Tho the user knows just where to turn to his subject in the tables, by first consulting the index he may be sent to other allied subjects, where he will find valuable matter which he would otherwise overlook.

In thinking or speaking of the class numbers, confusion will be avoided by always reading them with the decimal point; e. g., 942.27 is read "nine forty-two, twenty-seven,"—never "ninety-four, two twenty-seven," etc.

To the owner of the Decimal Classification, 2d ed. No. 125
 Below are the accumulated changes and minor additions. The only way to make these of *any value* is to go thru the book, and make the changes with a pen. Please send me promptly any further corrections or additions that you have noted as desirable, so others may have the benefit.

If the list seems long, remember that it represents the corrections of some 200 users for a year of an edition hurried thru the press. Many items are unimportant. A carefully revised edition is nearly ready in MS., and the total returns have not equalled outlay, the Library Bureau has agreed to print the revised edition as soon as subscriptions enough to meet half its cost are received. This new edition, if printed, will contain a much larger Index, all in one alphabet, not as a supplement, and all the additions to tables will be in regular place. Those willing to make the new and revised edition possible, by taking one or more copies, at the same price as for this edition, should send word to the publishers.

The full tables for French, Italian, and Spanish literatures, and for Medicine, Building, and Architecture, are nearly printed, and will be mailed free to every owner of the book within a few weeks.

MELVIL DEWEY,
 Columbia College, N. Y.

Nov. 1, 1886.

ERRATA IN TABLES.

On page 1, Table of main classes, alter *Theology* to *Religion*.

In 015, 4th line, substitute *the English Catalog* for Watt, which belongs rather in 011.

029, 4th line, for 157 read 154.1.

In note preceding 030, cancel all decimal points. It is 031, American, 032, English, etc.

133.9, alter *Spiritualism* to *Spiritism*.

174.6, for 175.6 read 175.9.

220, alter 12th word, line 2, from *works* to *books* of the bible.

236.2 Resurrection should be 236.8.

237.5, cancel *Sheol*, and insert it after 236.4, Intermediate State.

301, cancel words "of civilization," which goes 901.

320, cancel o after decimal points in 2d and 3d lines. Read .1 Theory of state, etc.

326.5 change to 326.6, and make that 326.5; i. e. transpose the two lines.

326.9, change 940 to 930, also in 327.

345, substitute *U. S.* for *American*.

355 and 359, for 625 read 623.

371.91, for 362 read 362.4.

396.9, change the comma after War to a period.

449.9, Provençal, is 449; Old French (printed 449) is 447.01.

513, read, *Descriptive Geometry is 515*. See also *Mathematical drawing*.

526.46, cancel first .46.

542.7, for 545.6 read 545.7.

544.2, for 668 read 669.9.

545.4, for 668 read 669.9.

553.67 read *Asbestos*.

580, Insert new sheet with enlarged table.

589.9, last line of note, for 560 read 560.97.

591.157 change to 591.158, and 591.158 to 591.159.

593.96, spell *Holothuroidea*.

597.4, spell *Ganoidei*, and in 597-5, *Teleostei*.

621.29, for 628 read 627.8.

628.218 read *alignment*.

628.32, read see 628.237.

628.4, for Scavenging read Sanitation.

628.8, for 629.23 read 628.23.

767, for Dry print read Dry point.

943.9, change all 8s to 9s, so as to read .81 Hungary, etc.

INDEX CORRECTIONS.

A collation of the Tables with the Index gives the following list of entries which require additions or corrections.

Please go thru this list and correct the Index of your copy with a pen, making the numbers agree with the list below.

If the index has ever been used without reference to the Tables, the cards and shelf list must be looked at under each of these numbers to see that no wrong class numbers have been assigned because of these misprints.

The words underlined are wrongly printed in black type. Mark a cross against each, to indicate "not sub-divided in Tables." Underscore in ink words which should be in black face type.

Abdication	absolute monarchy	321.6	Booksellers' catalog, author	018.4
	constitutional "	321.7	British Museum library	027.542
	" history	342	Bromine compounds	549.4
<u>Aborigines of America</u>		970.1	Brownson, O. A.	191.2
Adjutant General's reports		353.6	Bugle, key	788.46
African colonization		325.6	valve	788.47
Albigenses sect		284.4	Bull fights	791
Algebraical equations		512.3	Cage birds	636.6
American constitution		342.731	Calculators arithmetic	510.8
Ancient customs and costume		390	Canary birds, care of	636.6
" " " "		913.3	¹ Cañons of the Col. desc.	917.91
geog. desc.		911.3	¹ Caroline Islands	996.6
Anti-slavery periodicals		326.5	Casuistry ethics	171.6
societies		326.6	Cataloging	025.3
Antiquities, biblical		220.93	Catechisms	238
law		340.3	Cells biology	576.3
³ Aphorisms Eng. lit.		828	Charlemagne French hist.	944.01
Apostles, acts of,		226.6	German "	943.01
Apostolic fathers		281.1	Charles II. Spanish hist.	946.053
³ Apothegms Eng. lit.		828	III.	946.057
Arabia anc. hist.		939.47	IV.	946.058
¹ Archipelago East Ind.		991	Child labor	331.3
Aristippus Greek phil.		183.5	Chios anc. hist.	939.13
Arsenides inorg. chem.		546.19	¹ " mod. "	949.93
Asphalt pavement		625.8	Chorus sacred music	783.8
Asylums and hospitals		362	Civilization, hist. of	901
Atlantic Ocean travel		910.4	Class feeling ethics	177.5
Banjo		787.7	<u>Communism</u> pol. econ.	335.4
Barometer pneumatics		533.4	Concordances, Bible	220.2
Base-line		526.24	Confession and absolution	265.6
Bathing		391.6	Corinthians II. epistles	227.3
³ Beauties selections Eng. lit.		828	³ Cornish language	491.67
Bessel's deduction L. M. Z.		526.47	Counterfeiting banks and money	332.9
Betrothal		392.4	Crushing mining dangers	622.83
Betting		175.9	" " eng.	622.73
Bible dictionaries		220.3	Cuttle fish	594.5
Binary vapor engines		621.44	¹ Damascus, Asiatic Turkey hist.	956.9
Birch-Pfeiffer, C. Ger. drama		832.74	Dew meteorology	551.57
Bitumen		553.24	Dialysis qual. anal.	544.5
Board of trade		381	Differential variations astr.	522.74
Book binding, library		025.7	<u>Divine attributes</u>	231.4

¹ Dorset, Eng. hist.	942.33	Hypermetamorphosis	591.35
Drugs, intoxicating ethics	178.8	Interference optics	535.4
Early printed books	093	Interludes organ music	786.84
Eating customs	394.1	John, St. gospel of	226.5
Eclipses, finding longitude by	525.48	Jonson, B. Eng. drama	822.34
Elevated railroads, eng.	625.4	¹ Kings Co., N. Y.	974.722
Emblems	246.5	Lamb, C. Eng. essays	824.75
Embryology botany	581.3	Lancaster and York Eng. hist.	942.04
Emerson, R. W. Am. philos.	191.3	³ Language, Eng., origin of	422.1
" " " literature	814.36	¹ Leeward Isl. history	972.97
Encyclopædists' lives	920.3	Liberty, personal, doctrine	233.7
Epic dramatic music	782.2	Library catalogs, author	018.1
Epigrams	828	L. M. L. formulæ	526.46
Equilibrium of liquids, physics	532.2	¹ Long Island, N. Y. hist.	974.722
Eudemus Greek philos.	185.3	Lunar methods	525.49
Evolution ethics	171.7	McCosh, J.	191.5
Ezekiel Bible	224.4	Machinery in industry	338.4
Fairies	398.4	Malleability	539.51
Fauna zoölogy	591.9	Manipulation chem.	542.2
Figure of earth geodesy	526.1	Map projection	526.8
" " geomorphy	525.14	Marvell, A. Eng. satire	827.43
Financiers' lives	923.3	Media anc. hist.	935.3
Fisheries ownership	333.9	Messenia " "	938.9
" production	338.3	Metamorphosis zoölogy	591.34
Fission	591.165	Mimetic variation animals	591.155
Folk-lore	398	Mitchell, D. G.	818.32
Foote, S. Eng. drama	822.62	Monstrosities, animal	591.159
Forestry agriculture	634.9	vegetable	581.159
Forge-bellows	533.87	Motet	783.4
Freewill Baptists	286.2	Municipal government	352
Freezing water-works	628.15	Nature, law of	340.1
Games customs	394.3	of respiration	591.121
Garfield, J. A., presidency of	973.8	¹ New Brunswick, Can. hist.	971.5
Gas light lib. econ.	022.7	¹ Niagara Falls hist.	974.799
Generation, spontaneous	576.1	Number metaphysics	119
Generatory organs zoölogy	591.46	Oblates monastic orders	271.76
Geocentric plane	521.2	Offensive animals	591.66
Glees music	784.1	³ Old French language	447.01
Globular projection	515.52	<u>Oratorios</u>	783.3
¹ Hants, Eng. hist.	942.27	Organic material zoölogy	591.137
Heliocentric long. and latitude	521.25	Overstudy school hygiene	371.71
Herzegovina hist.	943.96	Palestine pre-Judaic	939.45
Higher numerical quations, algebra	512.22	Peacock, T. L.	823.76
Histology animals	591.8	Philip II. French hist.	944.023
plants	581.8	III. " "	944.024
Hoisting machinery	621.86	III. Spanish hist.	946.051
Holothuroidea	593.96	IV. " "	946.052
Hulsean lectures	239.03	V. " "	946.055
Hybrids zoölogy	591.158	Piracy hist.	910.4
Hydraulic engine physics	532.82	Pirates' lives	910.4
press physics	532.81	Pius IV., creed of	238.2
Hydrous silicates	549.65	Planing machines	621.91
Hyperbola anal. geom.	516.24	Prime numbers arith.	511.3

INDEX CORRECTIONS.

Primitive apostolic church	281.2	Springs geology	551.49
Privileges, special, to lib. readers	024.7	Springs, hot phys. geog.	551.23
Protestantism	284	Strato Greek phil.	185.4
Proverbs, folk-lore	398.9	Stuarts Eng. hist.	942.06
Psychology	150	Suicide customs, etc.	394.8
Puissant's deduc.	526.48	" ethics	179.7
Pyrrhonism Greek philosophy	186.1	Tasmania history	994.6
Reformed church, Dutch, Europe	284.1	Teratology plants	581.22
" Am.	285.7	³ Texts Eng. philology	428.8
Resurrection doct. theol.	236.8	Theophrastus anc. phil.	185.2
Richardson, S.	823.61	Time systems and standard	529.75
Sacred art	246	Tubular bridges	624.4
Savoy declaration	238.5	Vaudois Christian sect	284.4
Schism, E. & W. church	270.3	Viaticum sacrament	265.7
" Papal, Avignon	270.5	Wagnerian music	782.2
Series calculus	517.21	Waldenses sects	284.4
Shelter of laboring classes	331.83	William I. German hist.	943.083
Sheol	236.4	Woman political parties	329.83
Sidereal clock and chronometer	522.51	Written examinations	371.27
Signals, military	623.7	Xenocrates anc. philos.	184.3
Spectrum analysis	544.6	Zwinglian Protestant sects	284.2

Correct also to the following forms :—

- P. 404, 338.9. Industrial legislation.
- P. 404. For NOTE 2 read TABLE 2.
- P. 405, line 8. For *languages* read *literatures*.
- P. 406. Insert 7 Slang.

In the Index correct the superior figures preceding words to read:

- ¹ Brunswick, Germ. hist.
- ² Collected works.
- ² Compendis.
- ² Dictionaries, special.
- ² Discourses.
- ² Disputations.
- ² Education.
- ² Essays.
- ² Lectures.

Before Magazines, general periodicals, erase ⁴ and insert ² on second line, special, see subject.

² Miscellanies.

Outlines, compends.

Before Periodicals, general, erase ⁴ and insert ² next line on special topics.

² Philosophy of special topics.

² Polygraphy. See subject for topical.

² Reviews.

³ Scandinavian language.

² Schools. See special subject.

² Societies, special. See subject.

² Transactions. See subject.

ADDITIONS TO TABLES.

Add the words in roman type. The italic is quoted from the tables to show connection only. Open the Classification at the number given. Write the words in roman type at the end of the line or in the connection shown by the words in italic type. If in doubt, write to the author for fuller explanation.

- 011 If by subjects they are 016.
 012 *Bibliographies* and Catalogs. . .
Ruskin, etc. Or, if preferred, put these with the author's works in the 800s.
 014 Divided by languages; e. g. bibliography of French pseudonyms, 014.4.
 017 For subject bibliographies see 016.
 018 .1 Public. .2 Private. .3 Auction. .4 Booksellers'.
 See 011 for general bibliographies.
 021.3 See 371.64 and 027.8.
 027 .1 *Private and family*, classified with private libraries, even after given to a public library.
 .3 i. e. libraries undertaken as a business, e. g. *Mudie's*.
 070 Newspapers are better here rather than in history of place where published.
 090 Photographs of ms. go with the subject. Only rarities and books about rarities go here.

- 133 .7 Humbugs, quackery.
 133 .9 See 289.9.
 149.6 e. g. Schopenhauer.
 150 *Mental faculties*. Psychology.
 For mind in lower animals, see 591.51.
 154 See 132.8, mnemonic derangements.
 163 *Assent*. Faith. See 234.2.
 164 Logical machines.
 170 *Ethics*.
 .1 Philosophy. .2 Compend, etc.
 177 .5 *Caste*. See 294, Brahmanism.
 179 .7 Life, duelling, suicide. See 394.8.
 .8 Jealousy, envy, hate, covetousness.
 190, *line 5*. Put here discussions of these systems and in some cases complete works. Individual works go with the subject treated, e. g. Mill's Logic is 160, Mill's complete works 192.7.
 193.7 See 149.6. Pessimism.
 206 *Reports* and works about the societies, Bible, Tract, etc.
 211 273.8 and 149.7, *Agnosticism*.
 214 See 231.8 for Christian view.
 217 and 248-9, private prayer.
 220 *General works*. Introductions.
 .6 Symbolism. See also 246. Typology. See also 232.
 .9 See also Palestine 913.33.
 .93 296, 933, 915.69 and 913.33.
 .95 See 933.

- 221 and 225
Divide like 220, unless it is preferred to put all these works together under 220.
- 223.5
See 264.038 and 245.
- 229.9
See 281.1. This includes only what is claimed by some as part of N. Test.
- 230 *Dogmatics*. Theology.
- 23i
.8 *Theodicy*, in revealed religion. See 214 for Natural.
- 233.3 See 136.3 and 129.2.
.6 " 126.
.7 " 234.9 and 123.
- 234.9 " 233.7 and 123.
- 236
.4 *Intermediate State*. Sheol. Hades.
.6 *Paradise*. Limbus patrum.
.7 *Limbo*. " infantum.
- 237
.5 *Hell*. Gehenna.
- 238 *Covenants*. Catechisms. Subdivided like 280-289; e. g. Catechism of Greek Church is 238.19; of Shakers. 238.98.
- 239 *Apologetics*. Evidences of Christianity.
.8
For non-Christian view see 215.
- 242 See 248.
- 244 *Religious novels*, Sunday School books, *Allegories*, etc., but class Bunyan 823.42.
- 245 See 223.5 and 264.038.
Divided by languages like 800 and then by churches like 280. if denomination is clearly marked.
- 246
.8 See 264.2.
- 255 *Brotherhoods* in the parish. For Monastic Orders, see 271.
- 257 See 377.5 and 027.8.
- 261 Influence of *the church* on morals, civilization, etc.
.5 See 377.8.
.7 " 322, and 172.3.
- 262 *Ecclesiastical Polity*. System, Methods of Organization.
.13 *Primacy*. Papal Supremacy. Infallibility.
- 263
.2 *Modern Sabbath*. Seventh Day.
- 264
.03 See 264.02.
- 270 281.1 to 4.
See for works of the time, fathers, etc. This is for History of the time.
.2 Period of *Œcumenical Councils*. See 262.5.
In the Note on Modern Period before 270.6, after *or Calvinistic*. For these periods in any special country see 274-279; e. g. Reformation in Eng. 274.2.
.8 A. D. 1789-
- 280 Churches may be divided by adding geog. figures. 285.774.71 is Reformed Dutch Church in N.Y. City.
- 284 Protestantism.
.1 See 285.7
- 289.2 Disciples.
.6 Hicksites.
- 294 See caste, 177.5.
- 299 Egypt, etc.
like 491-499; e. g. Afghani is 299.158.
- 320
.2 *Compendis, Statecraft, Politique*;
.9 *Hist. of Pol. Sci.* Divided like 930-999.

ADDITIONS TO TABLES.

- 323 Free Speech. Liberty of Press.
See 070 and 179.1.
- 325 .4-9 *Divided like 940-999* by country in which colony is planted.
- 326.9 Biog. of slaves with country, or in 326.92.
- 328.4-9, *line 3*.
.5 Rules.
.8 *Legislative Manuals*.
- 332.1 .11 National; .12 State; .13 Private; .14 Trust Companies; .15 Foreign.
.6 Bonds.
- 335 .01 Theory of property.
- 336.35 Repudiation.
- 337 In this case pro and con books are separated. .1, .2, and .3 are for books favoring these respective views; e. g. a book called "Protection," but in fact against it, goes .1 or .2 tho the title seems to indicate .3. Most free trade is .2.
- 340 Periodicals, etc., in law are usually limited to one of its sections; e. g. Law journals in U. S. are usually 345 or 347.05.
- 341 .7 Diplomacy; .8 Consular systems.
- 342 *Constitutional law* and history.
.4 Essays. .8 Polygraphy. .9 History.
- 346 Including colonies, etc.
All reported in English language, except the U. S. in 345.
- 347 .06 *Societies*. Bar Associations.
.94 *Evidence*. Including *general* works on evidence and testimony, as well as those on civil trials.
- .96 Justices. Notaries.
- 352 Use 352.0 for Individual cities subdivided like 940-999; e. g. local government of all cities in N. Y. is 352.074.7. After the State number the cities are arranged alphabetically.
- 353 .2 See 336.73 Finance of U. S.
.6 Includes Regimental histories unless limited to a particular period of national history; e. g. the hist. of 7th reg. of N. Y. in civil war goes in 973.7, but its hist. in general goes here 353.974.76.
For state governments add decimals 74-79 as in 974-979 followed by the same decimals as above for depts. Thus Judiciary dept. of N. Y. is 353.974.75.
- 354 As under 353, thus State dept. of Great Britain is 354.421
War dept. of France is 354.446, etc
- 355 Not including history or War dept material, but limited to Military Science, Tactics, etc. .03 Dictionaries; .05 Periodicals; .06 Societies, etc.; .07 Education (e. g. West Point).
- 359 Use form divisions. .03 Dictionaries; .05 Periodicals; .06 Education (Annapolis Naval Acad.) etc.
- 362 .1 Dispensaries.
- 363 Ku Klux.
- 366 Masons, Odd Fellows, Rosicrucians.
- 371.27 See 428.9, 438.9, etc.
- 371.85 Put chapters in a special college here, with a reference from the college.

ADDITIONS TO TABLES.

- 74.9 Institutions like N. Y. Cooper Union.
- 77.8 See 261.5.
- 78.4-9 For Women's Colleges, see 376.8.
- 79 .16 Discussion here; colleges themselves under 378.
- 90 Put Customs, etc., of special countries in 913-19; e. g. Customs of Japan is 915.2. Put books by *topics* both general and in special countries here; e. g. Etiquet in Japan is 395. Where book is both by topic and country the topic has the stronger claim.
- 94.7 Chivalry. .8 Duelling, Suicide.
See 340.3 and 179.7.
- 96.6 Woman in the home.
- 98.3 *Folk-lore*. Mother Goose.
- 23, *line* 5.
If in several languages put with 413 or with the least known language. A French-French dictionary is 443, not 443.4; i. e. use the 4th figure only when there are two or more languages.
- 27 *Dialects*, Slang.
.9 American and Scotch dialects.
- 37.01. Old High German. .02 Middle High German.
- 91 .4 *Excluding Dravidian* which is 494.
.69 Basque.
- 94 Dravidian. Tamil.
05 and 506. If wisht these may be divided geographically like 930-999; e. g. English Scientific Societies 506.42.
- 508 Travels.
.1 Extracts. .2 .3
General Scientific Travels, Explorations and Surveys. .4-9
Scientific travels divided by countries like 940-999.
- 511 .61 Magic Squares.
- 513 Descr. geometry is 515, see also 744.
- 529 .6 Determination. For feasts, etc., see 264.031.
- 531 .2 *Statics*. Graphical statics.
.3 *Dynamics*, Kinetics.
.4. See 621.89.
- 532 .4 Hydrometer.
.81 See 621.26.
.82 " 621.25.
.83 " 621.27.
.84 " 621.21-24.
- 535 .5 Double refraction.
.82 See 578.
.83 " 522.2.
.84 " 544.6 522.67, 523.37, 57, etc.
.85 " 770.
.88 " 627.9.
- 536 .81 " 621.1.
.82 " 621.43.
.83 " 697, 628.8, 621.19, and 644.
.84 " 697, 622.4, 628.8.
- 537 .8 " 621.3.
.81 " 654.
.83 Magneto-dynamos.
.84 Secondary batteries.

- 541.1 Combine atoms and molecules with .2 and use .1 for Thermochemistry.
- 55¹
 .49 Wells. Ground water.
 .57 Flow of streams. Floods.
 .74 Old red sandstone.
 .76 Lias. Oolite.
 .78 Eocene. Miocene. Pleiocene. Glacial.
- 560
 Use form divisions. .5 Periodicals. .6 Societies, etc. .9 Geog. Divided like 930-999; e. g. Pal. of Ohio is 560.977.1.
- 57¹ For special countries see 913.
 .86 Tents as dwelling.
- 57²
 .4 Original home of man. Eden. Atlantis. North Pole, etc.
- 57⁸
 .7, .8 and .9 *Special preparation and study.*
 .8 See 581.8.
 .9 " 591.8.
- 581.2
 .21 Diseases. .22 Teratology.
 .23 Parasites.
 .8 See 578.8.
- 582 See trees 715.
- 589
 .9 Microbes.
- 59¹
 .157, Colorational; .158, *Hybrids*;
 .159, *Monstrosities*.
 .57 Fascination.
 .69 Parasites.
 .92 Ocean.
- 593
 .3 Acalepha (old use of the term now limited to .73).
- 594
 .1 Unionidæ.
- 606
 Special exhibitions go with their topics; i. e. Agricultural fair in 630.6.
- 62¹
 .19 See 536.83, 628.8, 644.
 .4 and other motors.
 .46 Animal motors. Treadmills.
 .7 Mills and manufacturing works.
 .8 Machinery of Transmission.
 .89 Lubricants. Friction. See 531.4.
- 624 The heads printed are by kind of structure, regardless of use. For discussions from another standpoint use
 .01 Wood bridges.
 .02 Iron and Steel.
 .03 Long span.
 .04 Skew.
 .05 Highway.
 .06 Railway.
 .07 Aqueduct.
 .08
 .09 Special Bridges; descriptions, hist., etc.
- 625
 .4 Subways. Underground roads.
- 627 General hydraulic.
 .7 and dredging machinery.
- 628
 .09 *History and description of Sanitation and*
 .46 *Street cleaning* and sprinkling.
 .47 Pavements and Subways.
 .48 Trees in streets and squares.
 .49 Manufacture of fertilizers from town wastes.
- 634.9 Forestry. See 715.
- 636 See 599.7 Zoölogy and 619 Vet. Med.
- 636.1 See 682.1 Horseshoeing.

- 640 Hotels. Flats. See Coö-
housekeeping. 334.4
- 645 Plate.
- 646 See 391 Costume and care of
person.
- 654 See 537.81.
- 655 Copyright.
- 669
History of metals is put here, not
553 nor 622.
- 670 Specific topics go where of most
interest and value to readers;
e. g. Churn making might cover
use so as to go best in 637 Dairy;
but if limited to the simple making,
it is wood-working and most practical
in 674.
- 680 Amateur manuals.
- 695 Roofing, *slating and tiling*.
- 709 Divided geog. like 930-999; e. g.
Hist. of Roman Art is 709.37.
Art in N. Y. City is 709.747.1.
- 715 See 634.9 Forestry. 582 Bot-
any.
- 716 .1 Plants. .2 Flowers. .3
Conservatories. .4 Window Gar-
dens. .5 Ferneries.
- 736 Wood carving. Cameos.
- 739 Hammered Brass.
- 740 Design.
- 745 Fancy work.
- 747 *Fresco* (decoration). For paint-
ing see 750.
- 748 Leading. See 698.5.
- 782
.8 See 783.4.
785 " 783.1.
786.2 Tuning. Temperament.
- 809 Including general histories of
knowledge; e. g. Hallam's Lit. of
Mid. Ages.
- 811.39 Minor Poets.
- 811.46 Taylor, Bayard, 1825-1878.
- 814
.36 Emerson, Ralph Waldo. 1803-
1882.
For works on his philosophy, see
191.3.
- 817.37 *Read Artemus*.
- .46 Shaw, H. W. (Josh Billings.)
1818-1885.
- 818.32 (Ik Marvel.)
- 821.08 Collections.
- 821.64 See 823.64 and 824.66.
- .74 See 823.73.
- .84 1828-1882.
- 822
.66 See 825.64.
- 823
.64 Comp. works go best here.
See 821.64 and 824.66.
- .73 See 821.74.
- 824
.66 See 821.64 and 823.64.
- 824
.7 1800-1837.
.8 1837-
825.64 See 822.66.
- 827.8 1837-
- 828 Anecdotes, Ana, Epigrams,
Quotations. For Riddles, see
398.6.
- 831.23 See 839.311.2.
- 837.31 " 839.371.
- 872.6 " 878.5.
- 874.5 " 877.3.
- 878.5 " 872.6.
- 900 General Note. Hist. of wars
go with the country invaded un-
less more specially pertaining to
the invader; e. g. U. S. histo-
ries of Mexican War go 973.6 as
being so completely a part of U.
S. hist. but a French hist. of same
goes 972.05.
Books that seem to go equally

- well in 900 or some other class are usually best put in 900 under the close geog. division. Many libraries put almost everything pertaining to a country or city under it in the history, tho this largely destroys the value of other important classes and should be avoided.
- Battles of the Am. revolution go in 973.3 but Boston Massacre 974.46 as local matter. Books that are doubtful between state and national history go best with the state under the rule, "Put under the most specific head that will contain it."
- 901 History of Civilization. See also 301.
- 907 *Teaching* and Writing history.
- 909 *Universal* and Modern *Histories*.
- .1 476 A. D.—1199.
- .2 1200 —1299.
- .3 1300 —1399.
- .4 1400 —1499.
- .5 1500 —1599.
- .6 1600 —1699.
- .7 1700 —1799.
- .8 1800 —1899.
- For ancient history see 930.
- 914 In assigning the travels nos. use the history tables which follow and insert 1 after the initial 9 and move the decimal point; e. g. Guide to N. Y. City is 917.471; for N. Y. in history tables is 974.71.
- 920 *Lives* which will not go under any head without "forcing" are best put in a single alphabet under the three figures 920.
- .4 Booksellers.
- 923.2 For Biog. of slaves see 326.9.
- 930 *Ancient History*. To A. D. 476.
- 940 Write at top MODERN HISTORY.
- 949.6 .61 Constantinople.
- 956 See 949.5 and 6. Byzantine emp.
- 972.82 or Belize.
- 973.4 This is period, not topic, for which see 342.73.
- 978 Books covering Mountain and Pacific States together, go here.

ERRATA IN INTRODUCTION.

- P. 30, line 11. For 557 read 558.
- P. 31, line 7, read 016.928.915.51.
- P. 31, line 9. For ten read 11.
- P. 31, line 14. For "Practical variations" read "Contractions for specialists."
- P. 32, line 25-29. After these lines were written, 337 was revized and sub-divided, thus spoiling this illustration.
- Cancel *Taxes*, *Import* and *Export*, and add *Reciprocity*, *Revenue-tariff*, *Raw materials*, *Subsidies*, *Trade*, *free*, and it illustrates the principle, tho the sub-divisions giv an added figure after the decimal point in several cases.
- P. 34, line 5 from bottom: Read Painting 750.
- P. 47, 10th no. in 1st col. is 246, not 346. Also insert after 16th no. 313 to 901.

SUGGESTIONS TO USERS.

Paste in book at p. 66.

In referring to tables hold the book in the right hand and turn with the left, then the class numbers show very plainly on the left margin and reference is greatly expedited. Some prefer to hold the book in the left hand, but in any case the eye should follow the left pages wholly.

In reading numbers aloud it is well to name the decimal point, reading 331.89 as *three thirty-one, point, eighty-nine*. This gives a clearer mental picture of the class number, and in libraries where the book number is also in Arabic figures, it avoids confusing the above with class 331 book 89.

Combining numbers in a way not printed in the tables must be done with great care or confusion results. Many users, fascinated with the possibilities of the system, make combinations more ingenious than useful; e. g. "the horse's foot and how to shoe it" was recently marked 636.1682, i. e., the blacksmithing number, 682, being added to the horse number, 636.1, making a very long, useless number. Horse-shoeing is now added to the tables as 682.1. Often it seems well to the classifier to add a figure to show some distinction. It is short and desirable, but later he may find he has thus shut himself off from using some other division which he would greatly prefer. Every added figure must be clearly written in the tables and index, for no man's memory can be trusted. See top of p. 50 on this point.

CLASSES.

0. GENERAL WORKS.
1. PHILOSOPHY.
2. THEOLOGY.
3. SOCIOLOGY.
4. PHILOLOGY.
5. NATURAL SCIENCE.
6. USEFUL ARTS.
7. FINE ARTS.
8. LITERATURE.
9. HISTORY.

DIVISIONS.

000 General Works.

- 010 BIBLIOGRAPHY.
- 020 LIBRARY ECONOMY.
- 030 GENERAL CYCLOPEDIAS.
- 040 GENERAL COLLECTIONS.
- 050 GENERAL PERIODICALS.
- 060 GENERAL SOCIETIES.
- 070 NEWSPAPERS.
- 080 SPECIAL LIBRARIES. POLYGRAPHY.
- 090 BOOK RARITIES.

100 Philosophy.

- 110 METAPHYSICS.
- 120 SPECIAL METAPHYSICAL TOPICS.
- 130 MIND AND BODY.
- 140 PHILOSOPHICAL SYSTEMS.
- 150 MENTAL FACULTIES. PSYCHOLOGY.
- 160 LOGIC.
- 170 ETHICS.
- 180 ANCIENT PHILOSOPHERS.
- 190 MODERN PHILOSOPHERS.

200 Religion.

- 210 NATURAL THEOLOGY.
- 220 BIBLE.
- 230 DOCTRINAL THEOL. DOGMATICS.
- 240 DEVOTIONAL AND PRACTICAL.
- 250 HOMILETIC. PASTORAL. PAROCHIAL.
- 260 CHURCH. INSTITUTIONS. WORK.
- 270 RELIGIOUS HISTORY.
- 280 CHRISTIAN CHURCHES AND SECTS.
- 290 NON-CHRISTIAN RELIGIONS.

300 Sociology.

- 310 STATISTICS.
- 320 POLITICAL SCIENCE.
- 330 POLITICAL ECONOMY.
- 340 LAW.
- 350 ADMINISTRATION.
- 360 ASSOCIATIONS AND INSTITUTIONS.
- 370 EDUCATION.
- 380 COMMERCE AND COMMUNICATION.
- 390 CUSTOMS. COSTUMES. FOLK-LORE.

400 Philology.

- 410 COMPARATIVE.
- 420 ENGLISH.
- 430 GERMAN.
- 440 FRENCH.
- 450 ITALIAN.
- 460 SPANISH.
- 470 LATIN.
- 480 GREEK.
- 490 MINOR LANGUAGES.

500 Natural Science.

- 510 MATHEMATICS.
- 520 ASTRONOMY.
- 530 PHYSICS.
- 540 CHEMISTRY.
- 550 GEOLOGY.
- 560 PALEONTOLOGY.
- 570 BIOLOGY.
- 580 BOTANY.
- 590 ZOOLOGY.

600 Useful Arts.

- 610 MEDICINE.
- 620 ENGINEERING.
- 630 AGRICULTURE.
- 640 DOMESTIC ECONOMY.
- 650 COMMUNICATION AND COMMERCE.
- 660 CHEMICAL TECHNOLOGY.
- 670 MANUFACTURES.
- 680 MECHANIC TRADES.
- 690 BUILDING.

700 Fine Arts.

- 710 LANDSCAPE GARDENING.
- 720 ARCHITECTURE.
- 730 SCULPTURE.
- 740 DRAWING. DESIGN. DECORATION.
- 750 PAINTING.
- 760 ENGRAVING.
- 770 PHOTOGRAPHY.
- 780 MUSIC.
- 790 AMUSEMENTS.

800 Literature.

- 810 AMERICAN.
- 820 ENGLISH.
- 830 GERMAN.
- 840 FRENCH.
- 850 ITALIAN.
- 860 SPANISH.
- 870 LATIN.
- 880 GREEK.
- 890 MINOR LANGUAGES.

900 History.

- 910 GEOGRAPHY AND DESCRIPTION.
- 920 BIOGRAPHY.
- 930 ANCIENT HISTORY.
- 940 EUROPE.
- 950 ASIA.
- 960 AFRICA.
- 970 NORTH AMERICA.
- 980 SOUTH AMERICA.
- 990 OCEANICA AND POLAR REGIONS.

Modern.

GENERAL WORKS.

Limited to *none* of the nine classes.

000

001

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003

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008

009

Left blank for local history or biography, etc., where some special collection is making which is to be kept in a case by itself, out of its regular place in the classification. Individuals use these numbers for personal diaries, note books, memorabilia, etc.

010 Bibliography.

011

012

013

014

015

016

017

018

019

General Bibliographies.
Of Special Authors.
" " Classes of Authors.
" " Forms, Pseudonyms, etc.
" " Countries.
" " Subjects.
Subject Catalogs.
Author "
Dictionary "

020 Library Economy.

021

022

023

024

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027

028

029

Scope and Founding.
Buildings.
Government and Service.
Regulations for Readers.
Administration. Departments.
Special Subject Libraries, etc.
General Libraries. Reports, etc.
Reading and Aids.
Literary Methods.

030 General Cyclopedias.

031

032

033

034

035

036

037

038

039

American.
English.
German.
French.
Italian.
Spanish.
Slavic.
Scandinavian.
Minor Languages.

040 General Collected Essays, etc.

041

042

043

044

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046

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048

049

American.
English.
German.
French.
Italian.
Spanish.
Slavic.
Scandinavian.
Minor Languages.

050 General Periodicals.

051

052

053

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055

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057

058

059

American.
English.
German.
French.
Italian.
Spanish.
Slavic.
Scandinavian.
Minor Languages.

060 General Societies.

061

062

063

064

065

066

067

068

069

American.
English.
German.
French.
Italian.
Spanish.
Slavic.
Scandinavian.
Minor Languages.

070 Newspapers.

071

072

073

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075

076

077

078

079

American.
English.
German.
French.
Italian.
Spanish.
Slavic.
Scandinavian.
Minor Languages.

080 Special Libraries. Polygraphy.

081

082

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084

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087

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089

Left blank to be used (if preferred to prefixing an initial) for general collections of books which by terms of gift or for other cause must be kept together. This must be kept distinct from 040 where the individual books are polygraphic, i. e. are bound pamphlets, essays, addresses, scrap or note books, etc., too general in scope to go under any single class.

090 Book Rarities.

091

092

093

094

095

096

097

098

099

Manuscripts.
Block Books.
Early Printed. Incunabula. See 655.
Rare Printing. Privately Printed.
Rare Binding.
Rare Illustrations or Materials.
Ownership. Book Plates.
Prohibited. Lost. Imaginary.
Other Rarities. Curiosa.

PHILOSOPHY.

100 Philosophy.

- 101 Utility.
- 102 Compendis.
- 103 Dictionaries.
- 104 Essays.
- 105 Periodicals.
- 106 Societies.
- 107 Education.
- 108 Polygraphy.
- 109 History.

110 Metaphysics.

- 111 Ontology.
- 112 Methodology.
- 113 Cosmology.
- 114 Space.
- 115 Time.
- 116 Motion.
- 117 Matter.
- 118 Force.
- 119 Quantity. Number.

120 Metaphysical Topics.

- 121 Knowledge, origin, and limits.
- 122 Causation. Cause and effect.
- 123 Liberty and Necessity.
- 124 Teleology. Final causes.
- 125 Infinite and finite.
- 126 Consciousness. Personality.
- 127 Unconsciousness. Automata.
- 128 The soul.
- 129 Origin of the individual soul.

130 Mind and Body.

- 131 Mental physiology and hygiene.
- 132 Mental derangements.
- 133 Delusions. Witchcraft. Magic.
- 134 Mesmerism. Clairvoyance.
- 135 Sleep. Dreams. Somnambulism.
- 136 Sexes.
- 137 Temperaments.
- 138 Physiognomy.
- 139 Phrenology. Mental photography.

140 Philosophical Systems.

- 141 Idealism. Transcendentalism.
- 142 Critical.
- 143 Intuitionism.
- 144 Empiricism.
- 145 Sensationalism.
- 146 Materialism. Positivism.
- 147 Pantheism. Monism.
- 148 Eclecticism.
- 149 Other philosophical systems.

150 Mental Faculties.

- 151 Intellect.
- 152 Sense.
- 153 Understanding.
- 154 Memory.
- 155 Imagination.
- 156 Reason.
- 157 Sensibility. Emotions.
- 158 Instincts.
- 159 Will.

160 Logic.

- 161 Inductive.
- 162 Deductive.
- 163 Assent.
- 164 Symbolic. Algebraic.
- 165 Sources of error. Fallacies.
- 166 Syllogism. Enthymeme.
- 167 Hypothesis.
- 168 Argument and persuasion.
- 169 Analogy. Correspondence.

170 Ethics.

- 171 Theory of ethics.
- 172 State ethics.
- 173 Family ethics.
- 174 Professional and business ethics.
- 175 Ethics of amusements.
- 176 Sexual ethics.
- 177 Social ethics.
- 178 Temperance.
- 179 Other ethical topics.

180 Ancient Philosophers.

- 181 Oriental.
- 182 Early Greek.
- 183 Sophistic and Socratic.
- 184 Platonic.
- 185 Aristotelian.
- 186 Pyrrhonist and New Platonist.
- 187 Epicurean.
- 188 Stoic.
- 189 Early Christian and medieval.

190 Modern Philosophers.

- 191 American.
- 192 British.
- 193 German.
- 194 French.
- 195 Italian.
- 196 Spanish.
- 197 Slavic.
- 198 Scandinavian.
- 199 Other modern.

RELIGION.

- | | |
|--|---|
| <p>200 Religion.</p> <p>201 Philosophy. Theories.</p> <p>202 Compenda.</p> <p>203 Dictionaries. Cyclopedias.</p> <p>204 Essays. Lectures. Addresses.</p> <p>205 Periodicals. Reviews.</p> <p>206 Societies. Transactions.</p> <p>207 Education. Theological Schools.</p> <p>208 Polygraphy. Collections.</p> <p>209 History of Theology.</p> <p>210 Natural Theology.</p> <p>211 Deism and Atheism.</p> <p>212 Pantheism. Theosophy.</p> <p>213 Creation. Evolution.</p> <p>214 Providence. Theodicy. Fatalism.</p> <p>215 Religion and Science.</p> <p>216 Evil. Depravity.</p> <p>217 Prayer.</p> <p>218 Future Life. Immortality.</p> <p>219 Analogies. Correspondences.</p> <p>220 Bible.</p> <p>221 Old Testament.</p> <p>222 <i>Historical Books.</i></p> <p>223 <i>Poetical</i> "</p> <p>224 <i>Prophetical</i> "</p> <p>225 New Testament.</p> <p>226 <i>Gospels and Acts.</i></p> <p>227 <i>Epistles.</i></p> <p>228 <i>Apocalypse.</i></p> <p>229 Apocrypha.</p> <p>230 Doctrinal. Dogmatics.</p> <p>231 God. Unity. Trinity.</p> <p>232 Christ. Christology.</p> <p>233 Man. The Fall. Sin.</p> <p>234 Salvation. Soteriology.</p> <p>235 Angels. Devils. Satan.</p> <p>236 Eschatology. Death. Judgment.</p> <p>237 <i>Future State.</i></p> <p>238 Creeds. Confessions.</p> <p>239 Apologetics.</p> <p>240 Practical. Devotional.</p> <p>241 Didactic. Catechisma.</p> <p>242 Meditative.</p> <p>243 Hortatory.</p> <p>244 Devout miscellany. Fiction.</p> <p>245 Hymnology. Religious Poetry.</p> <p>246 Ecclesiology. Symbolism.</p> <p>247 Sacred Furniture, Vessels, etc.</p> <p>248 Personal Religion. Asceticism.</p> <p>249 Family Devotions.</p> | <p>250 Homiletic. Pastoral. Parochial.</p> <p>251 Homiletics. Preaching.</p> <p>252 Sermons.</p> <p>253 Pastoral Visitations. Evangelistic.</p> <p>254 Clerical Support. Celibacy.</p> <p>255 Brotherhoods and Sisterhoods.</p> <p>256 Societies for Parish Work. Guilds.</p> <p>257 Parochial Schools, Libraries, etc.</p> <p>258 Parish Care of Sick, Fallen, etc.</p> <p>259 Other Ministrations and Work.</p> <p>260 Church. Institutions. Work.</p> <p>261 Church.</p> <p>262 <i>Ecclesiastical polity.</i></p> <p>263 Sabbath. Lord's Day. Sunday.</p> <p>264 Public Worship. Ritual.</p> <p>265 Sacraments. Ordinances.</p> <p>266 Missions. Home and Foreign.</p> <p>267 Associations. Y. M. C. A., etc.</p> <p>268 Sunday Schools.</p> <p>269 Revivals. Retreats.</p> <p>270 Religious History.</p> <p>271 Monastic Orders.</p> <p>272 Persecutions.</p> <p>273 Doctrines. Dogmas. Heresies.</p> <p>274 Europe.</p> <p>275 Asia.</p> <p>276 Africa.</p> <p>277 North America.</p> <p>278 South America.</p> <p>279 Oceanica.</p> <p>280 Christian Churches & Sects.</p> <p>281 Primitive and Oriental.</p> <p>282 Roman Catholic.</p> <p>283 Anglican and American P. E.</p> <p>284 Continental Protestant.</p> <p>285 Presbyterian. Congregational.</p> <p>286 Baptist.</p> <p>287 Methodist.</p> <p>288 Unitarian.</p> <p>289 Minor Christian Sects.</p> <p>290 Ethnic. Non-Christian.</p> <p>291 Comparative & General Mythology.</p> <p>292 <i>Greek and Roman Mythology.</i></p> <p>293 <i>Teutonic and North'n Mythology.</i></p> <p>294 Brahmanism. Buddhism.</p> <p>295 Parseecism.</p> <p>296 Judaism.</p> <p>297 Mohammedanism.</p> <p>298 Mormonism.</p> <p>299 Minor Non-Christian Religions.</p> |
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SOCIOLOGY.

- 300 Sociology.**
 301 Philosophy of Civilization.
 302 Compendis.
 303 Dictionaries.
 304 Essays.
 305 Periodicals.
 306 Societies.
 307 Education.
 308 Polygraphy.
 309 History of Sociology.
- 310 Statistics.**
 311 Theory. Methods. Science of.
 312 Population. Progress. Vital.
 313 Special Topics.
 314 Europe.
 315 Asia.
 316 Africa.
 317 North America.
 318 South America.
 319 Oceanica.
- 320 Political Science.**
 321 Form of State.
 322 Church and State.
 323 Internal or Domestic Relations.
 324 Suffrage.
 325 Colonies and Immigration.
 326 Slavery.
 327 Foreign Relations.
 328 Legislative Bodies and Annals.
 329 Political Parties.
- 330 Political Economy.**
 331 Capital. Labor. Wages.
 332 Banks. Money. Credits. Interest.
 333 Land. Ownership. Rights and Rent.
 334 Co-operation.
 335 Socialism and Communism.
 336 Finance. Public Funds. Taxation.
 337 Protection and Free Trade.
 338 Production and Manufactures.
 339 Pauperism.
- 340 Law.**
 341 International Law.
 342 Constitutional Law.
 343 Criminal Law.
 344 Martial Law.
 345 American Statutes and Cases.
 346 British Statutes and Cases.
 347 Treatises. American and British.
 348 Canon Law.
 349 Foreign Law. Roman.
- 350 Administration. War.**
 351 Civil Service.
 352 Local Government. City. Town.
 353 United States and State.
 354 Foreign States.
 355 Army. Military Science. See 625.
 356 *Infantry.*
 357 *Cavalry.*
 358 *Artillery.*
 359 Navy. Naval Science. See 625.8.
- 360 Associations. Institutions.**
 361 Charitable.
 362 Hospitals. Asylums.
 363 Political.
 364 Reformatory.
 365 Prisons. Discipline.
 366 Secret Societies.
 367 Social Clubs.
 368 Insurance.
 369 Other.
- 370 Education.**
 371 Teachers, Methods, and Discipline.
 372 Elementary.
 373 Higher.
 374 Self-education and Culture.
 375 Curriculum.
 376 Of Women.
 377 Religious, Ethical, and Secular.
 378 Colleges and Universities.
 379 Public-School System.
- 380 Commerce, Communication.**
 381 Domestic Trade.
 382 Foreign Trade. Consular Reports.
 383 Post Office.
 384 Telegraph. Cable. Telephone.
 385 Railroad and Express.
 386 Canal and Highway Transportation.
 387 River and Ocean Transportation.
 388 City Transit. See 625.
 389 Weights and Measures. Metrology.
- 390 Customs. Popular Life.**
 391 Costume and Care of Person.
 392 Birth. Home and Sex Customs.
 393 Treatment of Dead.
 394 Public and Social Customs.
 395 Etiquette.
 396 Woman's Position and Treatment.
 397 Gipsies.
 398 Folk-lore. Proverbs, etc.
 399 Customs of War.

PHILOLOGY.

- 400 Philology.**
401 Philosophy.
402 Compendis.
403 Dictionaries.
404 Essays.
405 Periodicals.
406 Societies.
407 Study and Teaching.
408 Polygraphy.
409 History.
- 410 Comparative.**
411 Orthography.
412 Etymology.
413 Dictionaries.
414 Phonology.
415 Grammar.
416 Prosody.
417 Inscriptions.
418 Texts.
419 Hieroglyphics.
- 420 English.**
421 Orthography.
422 Etymology.
423 Dictionaries.
424 Synonyms.
425 Grammar.
426 Prosody.
427 Dialects.
428 School Texts.
429 Anglo-Saxon.
- 430 German.**
431 Orthography.
432 Etymology.
433 Dictionaries.
434 Synonyms.
435 Grammar.
436 Prosody.
437 Dialects.
438 School Texts.
439 Minor Teutonic.
- 440 French.**
441 Orthography.
442 Etymology.
443 Dictionaries.
444 Synonyms.
445 Grammar.
446 Prosody.
447 Dialects.
448 School Texts.
449 Provençal.
- 450 Italian.**
451 Orthography.
452 Etymology.
453 Dictionaries.
454 Synonyms.
455 Grammar.
456 Prosody.
457 Dialects.
458 School Texts.
459 Rumansh and Wallachian.
- 460 Spanish.**
461 Orthography.
462 Etymology.
463 Dictionaries.
464 Synonyms.
465 Grammar.
466 Prosody.
467 Dialects.
468 School Texts.
469 Portuguese.
- 470 Latin.**
471 Orthography.
472 Etymology.
473 Dictionaries.
474 Synonyms.
475 Grammar.
476 Prosody.
477 Dialects.
478 School Texts.
479 Minor Italic.
- 480 Greek.**
481 Orthography.
482 Etymology.
483 Dictionaries.
484 Synonyms.
485 Grammar.
486 Prosody.
487 Dialects.
488 School Texts.
489 Minor Hellenic.
- 490 Minor Languages.**
491 Minor Indo-European.
492 Semitic.
493 Hamitic.
494 Scythian.
495 Eastern Asiatic.
496 African.
497 North American.
498 South American.
499 Malay-Polynesian and other.

NATURAL SCIENCE.

- 500 Natural Science.**
 501 Philosophy.
 502 Compends, Outlines.
 503 Dictionaries, Cyclopedias.
 504 Essays, Lectures, Addresses.
 505 Periodicals.
 506 Societies, Transactions, etc.
 507 Education, Teaching.
 508 Polygraphy, Collected Works.
 509 History.
- 510 Mathematics.**
 511 Arithmetic.
 512 Algebra.
 513 Geometry, Conic Sections.
 514 Trigonometry.
 515 Descriptive Geometry.
 516 Analytical Geometry, Quaternions.
 517 Calculus.
 518
 519 Probabilities.
- 520 Astronomy.**
 521 Theoretical.
 522 Practical and Spherical.
 523 Descriptive.
 524 Maps and Observations.
 525 Earth.
 526 Geodesy.
 527 Navigation.
 528 Ephemerides.
 529 Chronology.
- 530 Physics.**
 531 Mechanics.
 532 Liquids, Hydraulics.
 533 Gases, Pneumatics.
 534 Sound, Acoustics.
 535 Light, Optics.
 536 Heat.
 537 Electricity.
 538 Magnetism.
 539 Molecular Physics.
- 540 Chemistry.**
 541 Theoretical.
 542 Practical and Experimental
 543 Analysis.
 544 *Qualitative.*
 545 *Quantitative.*
 546 Inorganic.
 547 Organic.
 548 Crystallography.
 549 Mineralogy.
- 550 Geology.**
 551 Physical and Dynamical Geology.
 552 Lithology, Petrography.
 553 Economic Geology.
 554 Europe.
 555 Asia.
 556 Africa.
 557 North America.
 558 South America.
 559 Oceanica.
- 560 Paleontology.**
 561 Plants.
 562 Invertebrates.
 Protozoa. Radiates.
 Mollusks.
 Articulates.
 563 Vertebrates.
 Fishes. Batrachia
 Reptiles. Birds.
 Mammals.
- 570 Biology.**
 571 Prehistoric Archæology.
 572 Ethnology.
 573 Natural History of Man.
 574
 575 Evolution. Species.
 576 Origin and Beginnings of Life
 577 Properties of Living Matter.
 578 Microscopy.
 579 Collectors' Manuals.
- 580 Botany.**
 581 Physiological and Structural.
 582 Phanerogamia.
 Dicotyledonæ.
 Monocotyledonæ.
 Gymnosperma.
 583 Cryptogamia.
 Pteridophyta.
 Bryophyta.
 Thallophyta.
- 590 Zoology.**
 591 Physiological Zoology.
 592 Invertebrates.
 Protozoa. Radiates.
 Mollusks.
 Articulates.
 593 Vertebrates.
 Fishes. Batrachia.
 Reptiles. Birds.
 Mammals.

USEFUL ARTS.

600 Useful Arts.

- 601 Philosophy.
- 602 Compendis.
- 603 Dictionaries. Cyclopædias.
- 604 Essays. Lectures. Addresses.
- 605 Periodicals. Magazines. Reviews.
- 606 Societies. Fairs. Exhibitions.
- 607 Education. Schools of Technology.
- 608 Patents.
- 609 History of Useful Arts.

610 Medicine.

- 611 Anatomy.
- 612 Physiology.
- 613 Hygiene. Gymnastics. Training.
- 614 Public health. See also 629, San. Eng.
- 615 Materia medica. Therapeutics.
- 616 Pathology. Diseases. Treatment.
- 617 Surgery. Dentistry. Anæsthetics.
- 618 Obstetrics. Sexual Science.
- 619 Veterinary medicine.

620 Engineering.

- 621 Mechanical.
- 622 Mining.
- 623 Military.
- 624 Bridge and Roof.
- 625 Road and Railroad.
- 626 Canal.
- 627 River and Harbor.
- 628 Sanitary. Water-works.
- 629 Other branches.

630 Agriculture.

- 631 Soil. Fertilizers. Drainage.
- 632 Pests. Hindrances. Blights. Insects.
- 633 Grains. Grasses. Fibres. Tea, etc.
- 634 Fruits. Orchards. Vineyards.
- 635 Kitchen Garden. See 716, Flowers.
- 636 Domestic animals.
- 637 Dairy. Milk. Butter. Cheese.
- 638 Bees. Silkworms.
- 639 Fishing. Trapping.

640 Domestic Economy.

- 641 Cookery. Gastronomy.
- 642 Confectionery. Ices.
- 643 Food. Dining. Carving.
- 644 Fuel. Lights. See also 697, 665, 621, 32.
- 645 Furniture. Carpets. Upholstery.
- 646 Clothing. Toilet. Cosmetics.
- 647 Servants. Training. Duties. Wages.
- 648 Laundry.
- 649 Nursery. Children. Sick-room.

650 Communication. Commerce.

- 651 Writing. Cipher. Typewriters.
- 652 *Penmanship. Materials. Methods.*
- 653 *Short hand. Abbreviations.*
- 654 Telegraphy. Cables. Signals.
- 655 Printing. Type. Stereos. Publishing.
- 656 Transportation. Railroading, etc.
- 657 Book-keeping. Accounts.
- 658 Business manuals. Methods. Tables.
- 659 Advertising and other topics.

660 Chemical Technology.

- 661 Chemicals; Salts, Paints, etc.
- 662 Pyrotechnics. Explosives.
- 663 Beverages; Wines, Liquors, Ales, etc.
- 664 Foods; Sugar, Starch, etc.
- 665 Lights; Gas, Oil, Candles, etc.
- 666 Ceramics, Glass, Clay, Cement, etc.
- 667 Bleaching. Dyeing. Inks.
- 668 Other organic chemical industries.
- 669 Metallurgy. Assaying.

670 Manufactures.

- 671 Articles made of Metals.
- 672 *Of Iron and Steel; Stoves, Cutlery, etc.*
- 673 *Of Brass and Bronze; Bells, etc.*
- 674 Lumber and articles made of wood.
- 675 Leather " " " leather.
- 676 Paper " " " paper.
- 677 Cotton, Wool, Silk, Linen, etc.
- 678 Rubber and articles made of rubber.
- 679 Celluloid and other.

680 Mechanic Trades.

- 681 Watch and Instrument-making.
- 682 Blacksmithing. Horseshoeing.
- 683 Lock and Gun-making.
- 684 Carriage and Cabinet-making.
- 685 Saddlery and Shoe-making. Trunks.
- 686 Book-binding.
- 687 Clothes-making. Hats.
- 688
- 689 Other trades.

690 Building.

- 691 Materials. Timber, Stone, etc. See 620, 1
- 692 Plans and Specifications.
- 693 Masonry. Plastering, etc.
- 694 Carpentry. Stair-building.
- 695 Slating and Tiling.
- 696 Plumbing. Gas and Steam-fitting.
- 697 Warming and Ventilation.
- 698 Painting, Glazing. Paper-hanging.
- 699 Car and Ship-building. See 623, 8.

FINE ARTS.

700 Fine Arts.

- 701 Philosophy. Æsthetic.
- 702 Compendis.
- 703 Dictionaries.
- 704 Essays. Addresses.
- 705 Periodicals.
- 706 Societies.
- 707 Education. Study. Teaching.
- 708 Art Galleries.
- 709 History of Art.

710 Landscape Gardening.

- 711 Public Parks.
- 712 Private Grounds. Lawns.
- 713 Walks. Drives.
- 714 Water. Fountains. Lakes.
- 715 Trees. Hedges. Shrubs.
- 716 Plants. Flowers. Conservatories.
- 717 Arbors. Seats. Outlooks.
- 718 Monuments.
- 719 Cemeteries. See also 393.

720 Architecture.

- 721 Architectural Construction.
- 722 Ancient and Oriental.
- 723 Medieval. Gothic.
- 724 Modern.
- 725 Public Buildings.
- 726 Church. Cathedral.
- 727 College. School.
- 728 Domestic. Rural. Villas.
- 729 Of Special Countries.

730 Sculpture.

- 731 Materials and Methods.
- 732 Ancient.
- 733 *Greek and Roman.*
- 734 Medieval.
- 735 Modern.
- 736 Carving. Seals. Dies. Gems.
- 737 Numismatics. Coins. Medals.
- 738 Pottery. Porcelain.
- 739 Bronzes. Bric-a-brac.

740 Drawing. Decoration.

- 741 Free-hand. Crayon.
- 742 Perspective. See also 515.6.
- 743 Art Anatomy.
- 744 Mathematical Drawing. See 515.
- 745 Ornamental Design. Carpet, etc.
- 746 *Art Needlework.*
- 747 *Interior Decoration.*
- 748 *Stained and Iridescent Glass.*
- 749 Artistic Furniture.

750 Painting.

- 751 Materials and Methods.
- 752 Color.
- 753 Epic. Mythic. Idealistic.
- 754 Genre. Still Life.
- 755 Religious. Ecclesiastic.
- 756 Historical. Battles, etc.
- 757 Portrait.
- 758 Landscape. Marine.
- 759 Various Schools.

760 Engraving.

- 761 Wood.
- 762 Copper. Steel.
- 763 Lithography.
- 764 Chromolithography.
- 765 Line. Stipple.
- 766 Mezzotint. Aquatint.
- 767 Etching. Dry Print.
- 768 Bank Note. Machine.
- 769 Collections of Engravings.

770 Photography.

- 771 Photographic Chemistry.
- 772 Silver processes, etc.
- 773 Gelatine and Pigment processes.
- 774 Albertype, and Printer's Ink.
- 775 Photolithography.
- 776 Photozincography, etc.
- 777 Photo-engraving. Photo-electros.
- 778 Special Applications.
- 779 Collections of Photographs.

780 Music.

- 781 Theory.
- 782 Dramatic.
- 783 Sacred.
- 784 Vocal.
- 785 Orchestral.
- 786 Piano and Organ.
- 787 Stringed Instruments.
- 788 Wind "
- 789 Other "

790 Amusements.

- 791 Public Entertainments.
- 792 *Theater. Opera.*
- 793 In-door Amusements.
- 794 *Games of skill. Chess.*
- 795 *Games of chance. Cards.*
- 796 Out-door Sports.
- 797 *Boating and Ball.*
- 798 *Horsemanship. Racing.*
- 799 *Fishing. Hunting. Shooting.*

LITERATURE.

800 Literature.

- 801 Philosophy.
- 802 Compendis.
- 803 Dictionaries.
- 804 Essays.
- 805 Periodicals.
- 806 Societies.
- 807 Study and Teaching.
- 808 Treatises, Rhetoric.
- 809 History.

810 American Literature.

- 811 " Poetry.
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- 816 " Letters.
- 817 " Satire, Humor.
- 818 " Miscellany.
- 819

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839 Minor Teutonic Literatures.

840 French Literature.

- 841 " Poetry.
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849 Provençal Literature.

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859 Rumansh and Wallachian.

860 Spanish Literature.

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- 865 " Oratory.
- 866 " Letters.
- 867 " Satire, Humor.
- 868 " Miscellany.

869 Portuguese Literature.

870 Latin Literature.

- 871 " Poetry.
- 872 *Dramatic.*
- 873 *Epic.*
- 874 *Lyric.*
- 875 " Oratory.
- 876 " Letters.
- 877 " Satire, Humor.
- 878 " Miscellany

879 Minor Italic Literatures.

880 Greek Literature.

- 881 " Poetry.
- 882 *Dramatic.*
- 883 *Epic.*
- 884 *Lyric.*
- 885 " Oratory.
- 886 " Letters.
- 887 " Satire, Humor.
- 888 " Miscellany.

889 Minor Hellenic Literatures.

890 Minor Languages.

- 891 Minor Indo-European.
- 892 Semitic.
- 893 Hamitic.
- 894 Scythian.
- 895 Eastern Asiatic.
- 896 African.
- 897 North American.
- 898 South American.
- 899 Malay-Polynesian and other.

HISTORY.

900 History.

- 901 Philosophy.
- 902 Compend. Chronology.
- 903 Dictionaries.
- 904 Essays.
- 905 Periodicals.
- 906 Societies.
- 907 Study and Teaching.
- 908 Polygraphy.
- 909 Universal Histories.

910 Geography and Description.

- 911 Historical.
- 912 Maps.
- 913 Antiquities.
- 914 Europe.
- 915 Asia.
- 916 Africa.
- 917 North America.
- 918 South America.
- 919 Oceanica. Polar Regions.

920 Biography.

- 921 Of Philosophy.
- 922 „ Theology.
- 923 „ Sociology.
- 924 „ Philology.
- 925 „ Science.
- 926 „ Useful Arts.
- 927 „ Fine Arts.
- 928 „ Literature.
- 929 Genealogy. Heraldry.

930 Ancient History.

- 931 Chinese.
- 932 Egyptian.
- 933 Jewish.
- 934 Indian.
- 935 Medo-Persian.
- 936 Keltic.
- 937 Roman.
- 938 Greek.
- 939 Minor Countries.

940 Europe.

- 941 Scotland. Ireland.
- 942 England. Wales.
- 943 Germany. Austria.
- 944 France.
- 945 Italy.
- 946 Spain. Portugal.
- 947 Russia.
- 948 Norway. Sweden. Denmark.
- 949 Minor Countries.

950 Asia.

- 951 China.
- 952 Japan.
- 953 Arabia.
- 954 India.
- 955 Persia.
- 956 Turkey in Asia.
- 957 Siberia. [tan.]
- 958 Turkistan. Afghanistan. Beloochis-
- 959 Farther India.

960 Africa.

- 961 North Africa.
- 962 Egypt. Nubia.
- 963 Abyssinia.
- 964 Morocco.
- 965 Algeria.
- 966 North Central Africa.
- 967 South Central Africa.
- 968 South Africa.
- 969 Madagascar.

970 North America.

- 971 British America.
- 972 Mexico. Central America.
- 973 United States.
- 974 North Atlantic States.
- 975 South Atlantic States.
- 976 South Central or Gulf States.
- 977 Northeast Central or Lake „
- 978 West Central or Mountain „
- 979 Pacific States „ „

980 South America.

- 981 Brazil.
- 982 Argentine Republic.
- 983 Chili.
- 984 Bolivia.
- 985 Peru.
- 986 Colombia. Ecuador.
- 987 Venezuela.
- 988 Guiana.
- 989 Paraguay. Uruguay.

990 Oceanica. Polar Regions.

- 991 Malaysia.
- 992 Sunda.
- 993 Australasia.
- 994 Australia.
- 995 New Guinea.
- 996 Polynesia.
- 997 Isolated Islands.
- 998 Arctic Regions.
- 999 Antarctic Regions.

Sub=Sections.

010 Bibliography.

.1, Theory, Utility, etc.; .2, Compendis; .3, Dictionaries; .4, Essays; .5, Periodicals; .6, Societies; .7, Education, Training; .8, Polygraphy; .9, History.

011 General Bibliographies. Universal Catalogs.

012 Bibliographies of Special Authors.

e. g., Goethe, Dante, Chaucer, Ruskin, etc.

013 Of Special Classes of Authors.

e. g., Books written by Jesuits, by Catholics, by members of the Bavarian Academy, etc.

014 Of Special Forms. Anonyms, Pseudonyms, etc.

015 Of Special Countries.

Books published in the country. Publishers' lists, current publications. Subdivided by countries like 940-999; e. g., 015.42, Bibliography of books published in England, as Lowndes or Watts.

The history of literature, i. e., belles lettres, poetry, drama, fiction, etc., goes, of course, with those topics in 800, but the literary history of any given place or period covering the writings on all subjects as well as in literature, is bibliography, and goes, usually, in 015, though the literary history of some special class is 013.

016 Of Special Subjects.

Subdivided like the main classification, from 000-999; e. g., 016.01, Bibliography of Bibliographies; 016.091, of Manuscripts; 016.5, of Science; 016.942, of English History, etc.

Catalogs of General Collections.

Catalogs of any special subject, whether Subject, Author, or Dictionary, go under its subject number, in 016, which is the ruling heading wherever it conflicts with another.

017 Subject Catalogs. Systematic or Logical.

For all forms of alphabetical subject catalogs, see 019.

018 Author Catalogs.

A volume containing both Author and Subject Catalogs is the more useful in 017.

019 Dictionary Catalogs. Alphabetic-classed, etc.

020 Library Economy.

.1, Theory, Utility, etc.; .2, Compendis; .3, Dictionaries; .4, Essays; .5, Periodicals; .6, Societies; .7, Education, Training; .8, Polygraphy; .9, History.

021 Scope and Founding of Libraries.

.1 Scope and Usefulness.

.2 Library as an Educator.

.3 Library in Relation to Schools and the Young.

.4 Library Lectures, Museums, Galleries, etc.

.5 Library as a Public Recreation.

.6 Founding. Extension.

.7 Developing Interest; by Press, Lectures, School, Pulpit, Societies, Circulars, etc.

.8 Legislation; State and Local.

.9 Raising Funds. Securing Gifts of Books, etc.

Subscriptions, Bequests, Lectures, Fairs, Membership fees, Taxes, Government aid (r.mitted duties, public documents, foreign exchanges, etc.)

022 Buildings.

- .1 Location. Provision for Growth. Branches. Deliveries.
- .2 Materials and Protection against Fire. Library Fires.
- .3 Plans. Number, Size, and Arrangement of Rooms.
- .4 Storage Rooms.
- .5 Reading Rooms.
- .6 Administration and Special Rooms.
Cataloging, Office, Patent, Newspaper, Public Document, Duplicate, Class, Lecture, Museum, Art, Chess, Conversation, Waiting, Coat, Toilet, etc.
- .7 Lighting. Natural and Artificial. Electric, Gas, etc.
See 644, Domestic Economy, Fuel and Lights.
- .8 Heating and Ventilation. See 697, Building, Heating, etc.
- .9 Fixtures. Furniture and Fittings. Shelving, Counters, Hoists, Desks, Tables, Chairs, etc.

023 Government and Service.

- .1 Constitution and By-Laws for Managers.
- .2 Appointment and Tenure of Officers.
- .3 Trustees. Committees. Directors.
- .4 Chief Librarian. Qualification. Duties.
- .5 Staff. Assistants, Catalogers, Janitor.
- .6 Daily Hours. Vacations.
- .7 Titles and Duties.
- .8 Salaries.
- .9 Rules for Staff.

024 Regulations for Readers.

- .1 Readers' Qualifications.
User's age, Residence, Guarantees, References, Registration.
- .2 Fees and Assessments. Free Use.
- .3 Hours of Opening. Evening Opening.
- .4 Closing. Sunday, Holiday, Vacation, Examination.
- .5 Reference Use.
Access to Catalogs, Librarians, and Shelves. Reading-Room Rules. Decorum in Library.
- .6 Home Use.
Number of Books, Time, Delinquencies, Fines, Re-lending, Restrictions, Renewals.
- .7 Special Privileges to Readers.
Extra Books. Extra Time. Reservations. Suspension of Rules. Excuses.
- .8 Injuries. Defacements. Mutilations. Losses. Thefts.
- .9 Other Regulations for Users.

025 Administration. Departments.

.1 Executive.

Selecting and Buying Books, Discounts, Importation, Auctions, Old Book Lists; Supplies, Printing, Finances, Accounts; Relations to Readers, Permits, Privileges, Visitors; Statistics, Reports.

.2 Accession.

Books, Serials, Pamphlets, Ephemera; Reception, Collation, Plating, Embossing, Accessioning; Order System, Serial Blanks.

.3 Catalog. Printed, Manuscript or Card; Author, Subject, Classed, Dictionary or combined; Co-operative Rules, Size notation; Printed or photographed titles; Cards, cases and fittings.

.4 Shelf.

Classification; Shelf Numbers; Shelf and Book Labels; Fixed and Relative Locations; Sizes on shelves; Arrangement and Preservation of Public Documents, Pamphlets, Papers, Manuscripts, Maps, Drawings and Plans, Music, Broad-sides, Clippings; Injuries; Heat, gas, insects; Stock Taking; Shelf Lists.

.5 Reference. Reference Books. Aids to Readers. See 028-029.

.6 Loan.

Indicators; Charging Systems, Legers vs. Cards; Book Cards, Marks, Pockets; Call Slips, Readers' Cards; Notices, Reserves, Registers; Inter-library Loans.

.7 Binding and Repair. Materials, Sewing, Color, Lettering. Paper Covers.

.8 Publications. Sale Duplicates. Exchanges.

Publishing Reports, Bulletins, etc.

.9 Building. Care, cleaning, safety. Janitor. Police.

026 Libraries on Special Subjects.

Histories, Reports, Statistics, Bulletins, Handbooks, Circulars, and everything about the library not more required in one of the sections above. Subdivided by adding the Class Number of Subject; e. g., a Medical Library is 026.61; a Chess Library, 026.795; but the Catalog of a Chess Library is 016.795. Blanks, etc., go under subjects above, but duplicates are desirable under the library, thus making a complete set of its publications.

027 General Libraries. i. e., all not limited to special subjects.

Subdivided if wished by Countries, like 930-999. e. g., 027.744, College libraries in France. Or if wished, group all by geographical location, using 0 in 4th place to indicate no division by *kinds* of libraries. e. g., 027.044, Libraries of France; 027.07471, Libraries of N. Y. city.

.1 Private and Family.

.2 Proprietary, Society, Club, and Athenæum.

.3 Subscription. Circulating. e. g., Mudie's, etc.

.4 Free Public. Rate Supported. Endowed.

.5 State and Government.

.6 For Special Classes.

Institution, Prison, Reformatory, Asylum, Monastic, Workmen's, Factory, Railroad, Sailors, Lighthouse, Itinerating. A Workmen's library of books on engineering goes 026.62, not here.

.7 College.

.8 School. Sunday-School. Parish.

.9 Free News Rooms and Reading Rooms.

028 Reading and Aids. Methods, choice of editions, courses, fiction, of the young, professorship of, use of reference books, aids, guides, etc. See also 374, Self-education and culture.

029 Literary Methods.

Preserving and making available the results of thought, study, and reading. Index rerums, not-books, scrapbooks, clippings, classification, indexing, abbreviations (see 652), shorthand, brief longhand, mnemonics (see 157), labor-saving tools and methods, colors, standard sizes, alphabeting, copy and proof, etc. etc.

The Divisions 030-070 below are all subdivided; .1, American; .2, English; .3, German; .4, French; .5, Italian; .6, Spanish; .7, Slavic; .8, Scandinavian; .9, Other.

030 **General Cyclopedias.**

040 **General Collected Essays.**

050 **General Periodicals. Magazines.**

060 **General Societies. Transactions.**

e. g., Academies of Paris, Berlin, Vienna, etc.

070 **General Newspapers. Journalism.**

In large collections use geographical divisions under .1, American, .2, English, etc., as in 070 and 940-9.

080 **Special Libraries. Polygraphy.**

090 **Book Rarities.**

091 **Manuscripts. Autographs.**

For Diplomatics and Palaeography, see 417, and under the special language, 421.7, 431.7, etc.

092 **Block Books.**

093 **Early Printed Books. Incunabula.**

094 **Rare Printing.**

Aldines, Elsevirs, Caxtons, etc.; Privately printed books; Unique books.

095 **Rare Binding.**

Noted Binders, Costly Ornament, Curious Bindings.

096 **Rare Illustrations or Materials.**

Illuminated. Illustrated by inserted plates. Printed on vellum, silk, bark, etc.; in gold or silver letters, etc.

097 **Ownership. Book Plates. Ex Libris.**

098 **Prohibited. Lost. Imaginary.**

099 **Other Rarities. Curiosa. Minute size, etc.**

100 Philosophy in General.

Works limited to none of the nine Divisions.

- 101 Utility.
- 102 Compends, Outlines.
- 103 Dictionaries, Cyclopedias.
- 104 Essays, Lectures, Addresses.
- 105 Periodicals, Philosophical Magazines.
- 106 Societies, Transactions, etc.
- 107 Study and Teaching of Philosophy.
- 108 Polygraphy, Extracts, Maxims, etc.
- 109 History of Philosophy.

110 Metaphysics.

- 111 **Ontology.**
Nature of Being. Substance and Form.
- 112 **Methodology.**
Philosophical Classification of Knowledge. Terminology. For Book Classification see 029.
- 113 **Cosmology.**
- 114 **Space.**
- 115 **Time.**
- 116 **Motion.**
- 117 **Matter.**
- 118 **Force.**
- 119 **Quantity. Number.**

120 Other Metaphysical Topics.

- 121 Theory of Knowledge. Origin. Limits.
- 122 Causation. Cause and Effect.
- 123 Liberty and Necessity.
- 124 Teleology. Final Causes.
- 125 Infinite and Finite.
- 126 Consciousness. Personality.
- 127 Unconsciousness. Automata.
- 128 The Soul.
- 129 Origin of the Individual Soul.
 - .1 By Special Creation.
 - .2 By Inheritance. Traduction.
 - .3 Pre-existence.
 - .4 Transmigration. Palingenesis.
 - .5 Emanation. See also 147, Pantheism.

130 Mind and Body.

- 131 Mental Physiology and Hygiene.
- 132 Mental Derangements.
 - .1 Insanity.
 - .2 Idiocy.
 - .3 Hypochondria. Melancholy.
 - .4 Catalepsy.
 - .5 Ecstatics.
 - .6 Kleptomania and other leading to crime.
 - .7 Dipsomania and other leading to vice.
 - .8 Mnemonic derangements.
Not moving in one state what passed in another. See 154, Memory.

133 Delusions. Witchcraft. Magic.

- .1 Apparitions. Ghosts.
- .2 Hallucinations.
- .3 Divination. Oracles. Second Sight.
- .4 Witchcraft. Sorcery.
- .5 Astrology. See also 520.1, Astrology.
- .6 Palmistry.
- .7
- .9 Spiritualism. Table-tipping, etc.

Mesmerism. Animal Magnetism. Clairvoyance.

135 Sleep. Dreams. Somnambulism.

136 Mental Characteristics.

As Influenced by

- .1 Sex.
- .2 Physical Surroundings.
- .3 Ancestry (Mental Heredity).
- .4 Race. Racial Characteristics.

137 Temperaments.

138 Physiognomy.

139 Phrenology. Mental Photographs, etc.

140 Philosophical Systems.

The heads 140-149.9 are for the discussion of the systems as such. The philosophical works of authors of these various schools are classed under 190, not here. From these heads refer in the catalogs to authors clearly falling under them, without attempting to label each writer as an exponent of some one system.

141 Idealism. Transcendentalism.

e. g. Plato. Berkeley. Fichte. Emerson.

142 Critical Philosophy. e. g. Kant.

143 Intuitionism. e. g. Reid. McCosh.

144 Empiricism. e. g. Descartes. Bacon.

145 Sensationalism. e. g. Locke.

146 Materialism. Positivism. e. g. Hobbes. Comte.

147 Pantheism. Monism. e. g. Spinoza.

148 Eclecticism. e. g. Cousin.

149 Other Philosophical Systems.

See 211, Rationalism, Scepticism; 214, Fatalism.

- .1 Nominalism.
- .2 Realism. See 146.
- .3 Mysticism.
- .4 Associationalism.
- .5 Optimism. Meliorism.
- .6 Pessimism.
- .7 Agnosticism. See 273.8, Agnostic heresy.
- .8 Nihilism.
- .9 Other Systems.

FINE ARTS.

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- 719 Cemeteries. See also 393.

720 Architecture.

- 721 Architectural Construction.
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- 726 Church. Cathedral.
- 727 College. School.
- 728 Domestic. Rural. Villas.
- 729 Of Special Countries.

730 Sculpture.

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- 739 Bronzes. Bric-a-brac.

740 Drawing. Decoration.

- 741 Free-hand. Crayon.
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- 743 Art Anatomy.
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- 763 Lithography.
- 764 Chromolithography.
- 765 Line. Stipple.
- 766 Mezzotint. Aquatint.
- 767 Etching. Dry Print.
- 768 Bank Note. Machine.
- 769 Collections of Engravings.

770 Photography.

- 771 Photographic Chemistry.
- 772 Silver processes, etc.
- 773 Gelatine and Pigment processes.
- 774 Albortype, and Printer's Ink.
- 775 Photolithography.
- 776 Photozincography, etc.
- 777 Photo-engraving. Photo-electros.
- 778 Special Applications.
- 779 Collections of Photographs.

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- 799 *Fishing. Hunting. Shooting.*

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800 Literature.

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859 Rumansh and Wallachian.

860 Spanish Literature.

- 861 " Poetry.
- 862 " Drama.
- 863 " Fiction.
- 864 " Essays.
- 865 " Oratory.
- 866 " Letters.
- 867 " Satire, Humor.
- 868 " Miscellany.

869 Portuguese Literature.

870 Latin Literature.

- 871 " Poetry.
- 872 *Dramatic.*
- 873 *Epic.*
- 874 *Lyric.*
- 875 " Oratory.
- 876 " Letters.
- 877 " Satire, Humor.
- 878 " Miscellany.

879 Minor Italic Literatures.

880 Greek Literature.

- 881 " Poetry.
- 882 *Dramatic.*
- 883 *Epic.*
- 884 *Lyric.*
- 885 " Oratory.
- 886 " Letters.
- 887 " Satire, Humor.
- 888 " Miscellany.

889 Minor Hellenic Literatures.

890 Minor Languages.

- 891 Minor Indo-European.
- 892 Semitic.
- 893 Hamitic.
- 894 Scythian.
- 895 Eastern Asiatic.
- 896 African.
- 897 North American.
- 898 South American.
- 899 Malay-Polynesian and other.

HISTORY.

900 History.

- 901 Philosophy.
- 902 Compend. Chronology.
- 903 Dictionaries.
- 904 Essays.
- 905 Periodicals.
- 906 Societies.
- 907 Study and Teaching.
- 908 Polygraphy.
- 909 Universal Histories.

910 Geography and Description.

- 911 Historical.
- 912 Maps.
- 913 Antiquities.
- 914 Europe.
- 915 Asia.
- 916 Africa.
- 917 North America.
- 918 South America.
- 919 Oceanica. Polar Regions.

920 Biography.

- 921 Of Philosophy.
- 922 " Theology.
- 923 " Sociology.
- 924 " Philology.
- 925 " Science.
- 926 " Useful Arts.
- 927 " Fine Arts.
- 928 " Literature.
- 929 Genealogy. Heraldry.

930 Ancient History.

- 931 Chinese.
- 932 Egyptian.
- 933 Jewish.
- 934 Indian.
- 935 Medo-Persian.
- 936 Keltic.
- 937 Roman.
- 938 Greek.
- 939 Minor Countries.

940 Europe.

- 941 Scotland. Ireland.
- 942 England. Wales.
- 943 Germany. Austria.
- 944 France.
- 945 Italy.
- 946 Spain. Portugal.
- 947 Russia.
- 948 Norway. Sweden. Denmark.
- 949 Minor Countries.

950 Asia.

- 951 China.
- 952 Japan.
- 953 Arabia.
- 954 India.
- 955 Persia.
- 956 Turkey in Asia.
- 957 Siberia. [tan.
- 958 Turkistan. Afghanistan. Beloochis-
- 959 Farther India.

960 Africa.

- 961 North Africa.
- 962 Egypt. Nubia.
- 963 Abyssinia.
- 964 Morocco.
- 965 Algeria.
- 966 North Central Africa.
- 967 South Central Africa.
- 968 South Africa.
- 969 Madagascar.

970 North America.

- 971 British America.
- 972 Mexico. Central America.
- 973 United States.
- 974 North Atlantic States.
- 975 South Atlantic States.
- 976 South Central or Gulf States.
- 977 Northeast Central or Lake "
- 978 West Central or Mountain "
- 979 Pacific States " "

980 South America.

- 981 Brazil.
- 982 Argentine Republic.
- 983 Chili.
- 984 Bolivia.
- 985 Peru.
- 986 Colombia. Ecuador.
- 987 Venezuela.
- 988 Guiana.
- 989 Paraguay. Uruguay.

990 Oceanica. Polar Regions.

- 991 Malaysia.
- 992 Sunda.
- 993 Australasia.
- 994 Australia.
- 995 New Guinea.
- 996 Polynesia.
- 997 Isolated Islands.
- 998 Arctic Regions.
- 999 Antarctic Regions.

Sub=Sections.

010 Bibliography.

.1, Theory, Utility, etc.; .2, Compendis; .3, Dictionaries; .4, Essays; .5, Periodicals; .6, Societies; .7, Education, Training; .8, Polygraphy; .9, History.

011 General Bibliographies. Universal Catalogs.

012 Bibliographies of Special Authors.

e. g., Goethe, Dante, Chaucer, Ruskin, etc.

013 Of Special Classes of Authors.

e. g., Books written by Jesuits, by Catholics, by members of the Bavarian Academy, etc.

014 Of Special Forms. Anonyms, Pseudonyms, etc.

015 Of Special Countries.

Books published in the country. Publishers' lists, current publications. Subdivided by countries like 940-999; e. g., 015.42, Bibliography of books published in England, as Lowndes or Watts.

The history of literature, i. e., belles lettres, poetry, drama, fiction, etc., goes, of course, with those topics in 800, but the literary history of any given place or period covering the writings on all subjects as well as in literature, is bibliography, and goes, usually, in 015, though the literary history of some special class is 013.

016 Of Special Subjects.

Subdivided like the main classification, from 000-999; e. g., 016.01, Bibliography of Bibliographies; 016.091, of Manuscripts; 016.5, of Science; 016.942, of English History, etc.

Catalogs of General Collections.

Catalogs of any special subject, whether Subject, Author, or Dictionary, go under its subject number, in 016, which is the ruling heading wherever it conflicts with another.

017 Subject Catalogs. Systematic or Logical.

For all forms of alphabetical subject catalogs, see 019.

018 Author Catalogs.

A volume containing both Author and Subject Catalogs is the more useful in 017.

019 Dictionary Catalogs. Alphabetic-classed, etc.

020 Library Economy.

.1, Theory, Utility, etc.; .2, Compendis; .3, Dictionaries; .4, Essays; .5, Periodicals; .6, Societies; .7, Education, Training; .8, Polygraphy; .9, History.

021 Scope and Founding of Libraries.

.1 Scope and Usefulness.

.2 Library as an Educator.

.3 Library in Relation to Schools and the Young.

.4 Library Lectures, Museums, Galleries, etc.

.5 Library as a Public Recreation.

.6 Founding. Extension.

.7 Developing Interest; by Press, Lectures, School, Pulpit, Societies, Circulars, etc.

.8 Legislation; State and Local.

.9 Raising Funds. Securing Gifts of Books, etc.

Subscriptions, Bequests, Lectures, Fairs, Membership fees, Taxes, Government aid (r. mitted duties, public documents, foreign exchanges, etc.)

180 Ancient Philosophers.

See 921.9, Biography of Ancient Philosophy.

181 Oriental Philosophers.

- .1 Chinese. Confucius. Mencius.
- .2 Egyptian.
- .3 Jewish. Kabala. Philo. Maimonides.
- .4 Indian. Gymnosophists.
- .5 Persian. Sufism.
- .6 Chaldæan.
- .7 Sabeism.
- .8 Phœnician.
- .9 Syrian.

182 Early Greek Philosophers.

- .1 Ionic. Thales. Anaximander. Anaximenes
Materialistic. Things are as they seem.
- .2 Italic or Pythagorean. Half Idealistic.
- .3 Eleatic. Xenophanes. Parmenides. Zeno.
Idealistic. Existence denied. Thought is the only reality.
- .4 Heraclitus.
- .5 Empedocles.
- .6 Atomistic.
- .7 Democritus.
- .8 Anaxagoras.
- .9 Other Early Greek.

183 Sophistic and Socratic Philosophers.

- .1 Sophistic. Protagoras. Gorgias. Prodicus. Hippias.
- .2 Socrates.
- .3 Socratic.
- .4 Cynic. Antisthenes, Diogenes, Crates, etc.
- .5 Cyrenaic. Aristippus, Hegesias, etc.
- .6 Megaric. Euclid, Eubulides, Diodorus, etc.
- .7 Elian and Eretrian. Phedo, Menedemus, etc.

184 Platonic. Older Academy.

- .1 Plato. .2 Speusippus. .3 Xenocrates.

185 Aristotelian. Peripatetic. Lyceum.

- .1 Aristotle. .2 Theophrastus. .3 Eudemus. .4 Strato.

- 186 **Pyrrhonist. New Platonist.**
- .1 **Pyrrhonism. Scepticism. Pyrrho, Timon.**
 - .2 **New Academy. Arcesilaus, Carneades. Plutarch.**
 - .3 **Eclecticism. Cicero.**
 - .4 **Alexandrian. Neo-Platonic. Philo, Plotinus, Proclus, Porphyry, Iamblichus.**

187 **Epicurean. Epicurus. Lucretius.**

188 **Stoic.**

- .1 **Zeno.**
- .2 **Cleanthes.**
- .3 **Chrysippus.**
- .4 **Panaetius.**
- .5 **Posidonius.**
- .6 **Seneca.**
- .7 **Epictetus.**
- .8 **Marcus Aurelius.**

189 **Early Christian and Medieval Philosophers.**

- .1 **Gnosticism.** See 273.1, Basilides, Marcion. See 273.2, Manicheism.
- .2 **Patristic. Tertullian. Augustine. Clement. Origen.**
- .3 **Arabian. Avicenna, Averroes.**
- .4 **Scholastic. Scotus, Aquinas, Anselm, Abelard.**
- .5 **Mystic. Reuchlin, Cornelius Agrippa, Paracelsus, Servetus, Böhme.**

190 **Modern Philosophers.**

See also 921.1 to 921.8, Biography of Philosophy, or lives may be put here with works with references only under 920, Biography. Philosophical works are put here, not under the School or System to which the author may be thought to belong. See note under 140.

191 **American Philosophers.**

These numbers may be left blank for future use or used for the well known names among American Philosophical writers given below.

- .1 **Jonathan Edwards. 1703-1758.**
- .2 **O. A. Brownson. 1803-1876.**
- .3 **Ralph Waldo Emerson. 1803-1882.**
- .4 **Laurens P. Hickock. 1798-**
- .5 **James McCosh. 1811-**
- .6 **Noah Porter. 1811-**
- .7 **Francis Bowen. 1811-**
- .8 **William T. Harris. 1835-**
- .9 **Other American Philosophical Writers.**

- 192 **British Philosophers.**
- | | | |
|----|--------------------------------------|------------|
| .1 | Bacon. | 1561-1626. |
| .2 | Locke. | 1632-1704. |
| .3 | Berkeley. | 1684-1753. |
| .4 | Hume. | 1711-1776. |
| .5 | Reid. | 1710-1796. |
| .6 | Dugald Stewart. | 1753-1828. |
| .7 | John Stuart Mill. | 1806-1873. |
| .8 | Spencer. | 1820- |
| .9 | Other British Philosophical Writers. | |
- 193 **German Philosophers.**
- | | | |
|----|-------------------------------------|------------|
| .1 | Leibnitz. | 1646-1716. |
| .2 | Kant. | 1724-1804. |
| .3 | Fichte. | 1762-1814. |
| .4 | Schelling. | 1775-1854. |
| .5 | Hegel. | 1770-1831. |
| .6 | Schleiermacher. | 1768-1834. |
| .7 | Schopenhauer. | 1788-1860. |
| .8 | Lotze. | 1817-1882. |
| .9 | Other German Philosophical Writers. | |
- 194 **French Philosophers.**
- | | | |
|----|-------------------------------------|------------|
| .1 | Descartes. | 1596-1650. |
| .2 | Malebranche. | 1638-1715. |
| .3 | Condillac. | 1715-1780. |
| .4 | Rousseau. | 1712-1778. |
| .5 | Diderot. | 1713-1784. |
| .6 | Lamennais. | 1782-1854. |
| .7 | Cousin. | 1792-1867. |
| .8 | Comte. | 1798-1857. |
| .9 | Other French Philosophical Writers. | |
- 195 **Italian Philosophers.**
- 196 **Spanish Philosophers.**
- 197 **Slavic Philosophers.**
- 198 **Scandinavian Philosophers.**
- 199 **Other Modern Philosophers.**

Religion.

200 Religion. General Works.

- 201 Philosophy. Theories. Methods.
202 Compends. Outlines. Systems.
203 Dictionaries. Cyclopedias.
204 Essays. Lectures. Disputations. Addresses.
See 252, Sermons.
205 Periodicals. Magazines. Reviews.
206 Societies. Transactions. Reports, etc.
207 Education. Theological Seminaries. Training
Schools. See 377.
208 Polygraphy. Collected Works. Extracts, etc.
209 History of Theology.

210 Natural Theology.

- 211 Deism and Atheism.
Scepticism. Infidelity. Rationalism, etc.
See 239, Apologetics; 231, God; 273-8, Agnosticism.
212 Pantheism. Theosophy. See 147, Pantheism.
213 Creation. Evolution. See 575, Evolution.
214 Providence. Theodicy.
215 Religion and Science. See 239.8, Apologetics.
216 Evil. Depravity. See 149.6, Pessimism, and 233, Sin.
217 Prayer. Prayer Gauge. See 264.1, Prayer.
218 Future Life. Immortality. Eternity.
See 237, Future State; 128, The Soul.
219 Analogies. Correspondences. See also 169.

220 Bible. General Works.

For similar works limited to Old or New Testament, or individual works, see specific head below.

- .1 Canon. Inspiration. Prophecy.
- .2 Concordances. Analyses.
- .3 Dictionaries. Cyclopædias.
- .4 Original Texts and Early Versions. Codices.
 - .42, Chaldee; .43, Syriac; .44, Hebrew; .45, Samaritan; .46, Other Semitic. Ethiopic. Arabic, etc.; .47, Latin. Itala. Vulgate; .48, Greek Septuagint. Aquila. Symmachus. Theodotian. Hexapla; .49, Other early Versions. Armenia. Coptic. Gothic, etc.
- .5 Versions of Bible. Polyglots. Divided by Languages, like 400.
- .6 Hermeneutics. Exegesis.
- .7 Commentaries on whole Bible, and Annotated Editions.
 - For Notes, etc., on Portions of the Bible, see the most specific head in 221-229.
- .8 Special Topics.
 - Divided like General Classification, e. g., Natural Science of the Bible is 220.85.
- .9 Biblical Geography and History.
 - .91, Biblical Geography, Description, etc.; .92, Scriptural Biography, see also 922.1; .93, Antiquities, Archæology, see also 296 and 933; .94, Chronology; .95, History.

221 Old Testament. Texts. Introductions, etc.

222 Historical Books.

- .1 Pentateuch.
 - .11 Genesis. .12 Exodus. .13 Leviticus. .14 Numbers. .15 Deuteronomy.
- .2 Joshua.
- .3 Judges and Ruth.
- .4 Samuel.
- .5 Kings.
- .6 Chronicles.
- .7 Ezra.
- .8 Nehemiah.
- .9 Esther.

223 Poetical Books.

- .1 Job.
- .2 Psalms.
 - .3 Authorship and Chronology.
 - .4 Special Groups.
 - Messianic; Greater Hallel; Lesser Hallel; Vesper Psalms; Penitential, 6, 32, 38, 51, 102, 130, 143; Hebraic Five Books, Ps. 1-41; 42-72; 73-79; 60-106; 107-150.
 - .5 Liturgic Use by Christians.
 - .6 Commentaries on Psalms.
- .7 Proverbs.
- .8 Ecclesiastes.
- .9 Song of Solomon or Canticles.

224 **Prophetical Books.**

- .1 **Isaiah.**
- .2 **Jeremiah.**
- .3 **Lamentations.**
- .4 **Ezekiel.**
- .5 **Daniel.**
- .6 **Hosea.**
- .7 **Joel.**
- .8 **Amos.**
- .9 **Other Minor Prophets.**
- .91 **Obadiah.**
- .92 **Jonah.**
- .93 **Micah.**
- .94 **Nahum.**
- .95 **Habakkuk.**
- .96 **Zephaniah.**
- .97 **Haggai.**
- .98 **Zechariah.**
- .99 **Malachi.**

225 **New Testament. Texts, Introductions, etc.**

226 **Gospels and Acts.**

- .1 **Harmonies.**
- .2 **Matthew.**
- .3 **Mark.**
- .4 **Luke.**
- .5 **John.**
- .6 **Acts of the Apostles.**

227 **Epistles.**

- .1 **Romans.**
- .2 **1 Corinthians.**
- .3 **2 Corinthians.**
- .4 **Galatians.**
- .5 **Ephesians.**
- .6 **Philippians.**
- .7 **Colossians.**

227.8 Other Pauline Epistles.

- .81 1 Thessalonians.
- .82 2 Thessalonians.
- .83 1 Timothy.
- .84 2 Timothy.
- .85 Titus.
- .86 Philemon.
- .87 Hebrews.

.9 Catholic Epistles.

- .91 James.
- .92 1 Peter.
- .93 2 Peter.
- .94 1 John.
- .95 2 John.
- .96 3 John.
- .97 Jude.

228 Apocalypse.

229 Apocrypha.

- .1 Esdras 1, 2.
- .2 Tobit, Judith, Esther.
- .3 Wisdom.
- .4 Ecclesiasticus.
- .5 Baruch, Epistle of Jeremy, Song of the three Children.
- .6 Story of Susanna, History of Bel and the Dragon, Prayer of Manasses.
- .7 Maccabees 1, 2, 3.
- .8 Pseudo Gospels.
- .9 Apostolic Epistles and Canons. Clementines.

230 Doctrinal. Dogmatics.

General Doctrinal Works may be subdivided by churches like 280.

231 God. Unity. Trinity.

- .1 God the Father, Creator.
- .2 God the Son, Redeemer.
- .3 God the Holy Ghost, Giver of Life, Sanctifier.
- .4 Divine Attributes. Omniscience, Omnipresence, Omnipotence.
- .5 Divine Providence.
- .6 Divine Love and Wisdom.
- .7 Divine Law and Miracles.
- .8 Theodicy.
- .9

232 Christology.

- .1 Incarnation. Messiah.**
- .2 Logos, the Word of God.**
- .3 Atonement.**
- .4 Sacrifice.**
- .5 Resurrection.**
- .6 Second Coming.**
- .7 Judgment.**
- .8 Divine Humanity.**
- .9 Lives of Christ.**

233 Man.

- .1 The Fall.**
- .2 Sin.**
- .3 Moral and Spiritual Heredity. See Biology, 475-7.**
- .4 Accountability.**
- .5 Natural and Spiritual Body.**
- .6 Personality.**
- .7 Freedom.**
- .8**
- .9**

234 Salvation. Soteriology.

- .1 Grace.**
- .2 Faith.**
- .3 Redemption.**
- .4 Regeneration.**
- .5 Repentance.**
- .6 Obedience.**
- .7 Justification.**
- .8 Sanctification.**
- .9 Predestination and Freewill.**

235 Angels. Devils. Satan.

236 Eschatology. Last Things.

- .1 Death.
- .2 Resurrection.
- .3 Millennium.
- .4 Intermediate State.
- .5 Purgatory.
- .6 Paradise.
- .7 Limbo.
- .9 Judgment.

237 Future State.

- .1 Eternity.
- .2 Immortality.
- .3 Conditional Immortality.
- .4 Heaven.
- .5 Hell. Sheol.
- .6 Retribution. Future Punishment.
- .7 Eternal Punishment. See 289.1.

238 Creeds. Confessions. Covenants.

- .1 Apostles', Nicene, and Athanasian Creeds.
- .2 Creed of Pius IV. (Trent); and later Roman.
- .3 Anglican. 39 Articles, A. D. 1551.
- .4 Continental Prot. Lutheran. Calvinist. Dort.
- .5 Westminster. Saybrook. Cambridge. Savoy.
- .6-9 Of other Sects. Divided like 280.

239 Apologetics.

If preferred, courses of Apologetic lectures may be kept together; e. g., 239.01, Bampton; .02, Boyle; .03, Hulsean; .04, Bohlen; .05, Paddock. More usefully each book is classed under the most specific head that will contain it.

- .1 Apostolic Age.
- .2 Against the Jews.
- .3 Against the Heathen.
- .4 Against the Neo-Platonists. See Gnostics, 273.1.
- .5 Against the English and Scotch Deists.
- .6 Against the French Encyclopedists.
- .7 Against the Rationalists.
- .8 Against the Scientists.
- .9 Other Special Denials.

240 Devotional. Practical.

241 Didactic. For Catechisms, see 238.

242 Meditative. Contemplative.

243 Hortatory. Evangelistic.

244 Devout Miscellany. Religious Novels, Allegories, etc.

245 Hymnology. Religious Poetry.

May be divided by Languages, like 400, or by Churches, like 280.

246 Ecclesiology. Symbolism. Religious Art.

.1 Byzantine and Gothic Ecclesiology. See 726, Architecture.

.2 Primitive Church and Heathen Art.

.3 Images in Churches. Iconoclasts.

.4 Protestantism and Religious Art.

.5 Emblematic and Cryptographic Art. Catacomb Symbols.

.6 Liturgic Symbolism. Altar. Colors. Lights. See 264.

.7 Evangelistic Use of Music and Art, pictorial and plastic. Della Robbias.

.8 Eucharistic Music. Ambrose. Gregory the Great. Later Development. See 783, Sacred Music.

.9

247 Sacred Furniture. Vestments. Vessels. Ornaments, etc.

.1 Font. Baptistry. Lectern. Pulpit.

.2 Tabernacle. Rood Screen. Reredos.

.3 Sculpture and Mortuary Design. See 730, Sculpture.

.4 Illumination. Mosaics. Enamels. Stained Glass. See 745.

.5 Fresco and Religious Painting. See 750, Design.

.6 Pallium. Mitre. Crozier. Ring.

.7 Vestments and Altar Cloths.

.8 Eucharistic Vessels. See 265.3.

.9 Ornaments, etc. Crucifix. Banners. Thurible. Incense.

248 Personal Religion. Asceticism.

249 Family Devotions.

250 Homiletic. Pastoral. Parochial.

251 Homiletics. Preaching.

252 Sermons.

The collected Sermons on various topics under 252 may be divided by languages, like 400, or by Churches and Sects, like 280. The sermons on specific topics are more useful, like other pamphlets, classed with the topics, e. g., a Sermon on Family Devotions is under 249, not 252. The nine heads below are for matter *about* these special kinds of sermons, and for sermons themselves if the classifier prefers.

- .1 Episcopal Charges. Pastorals.
- .2 Controversial. Polemic.
- .3 Doctrinal. Dogmatic.
- .4 Practical. Devotional.
- .5 Academic. Educational.
- .6 Political. Public Occasions and Duties.
- .7 Consecration. Ordination.
- .8 Expository.
- .9 Memorial. Obituary. Biographical. Historical.

253 Pastoral Visitations, Evangelistic.

254 Clerical Support. Celibacy.

255 Brotherhoods. Sisterhoods.

256 Societies for Parish Work. Guilds. Sodalities.

257 Parochial Schools, Libraries, etc.

258 Parish Care of Sick, Fallen, etc.

259 Other Ministrations and Work.

260 Church. Institutions and Work.

261 The Church.

- .1
- .2
- .3 Church vs. Barbarism.
- .4 Church and Morals.
- .5 Church and Intellectual Development.
- .6 Church and Civilization.
- .7 Church and Civil Government.
- .8 National Churches vs. Organic Unity.
- .9

262 Ecclesiastical Polity.

.1 **Ministry.**

- .11 Apostolic Succession.
- .12 Episcopate.
- .13 Papacy. Primacy.
- .14 Priest. Presbyter. Minister. Lay Ministry.
- .15 Deacon. Deaconess. Evangelist.
- .16 Orders. Ordination.
- .17 Episcopal.
- .18 Presbyterian.
- .19 Congregational.

.2 **Parish. Congregation.**

.3 **See. Diocese. Cathedral System.**

.4 **Council. Synod. Presbytery. Congregation. Convention.**

.5 **General or Œcumenical Council.** See also 270.2.

.6 **Canons. Decrees.**

.7 **Traditions.**

.8 **Authority. Church and Ministerial. Private Judgment.**

.9 **Discipline. Courts. Trials.**

263 Sabbath. Lord's Day. Sunday.

.1 **Hebraic Sabbath.**

.2 **Modern Sabbath.**

.3 **Lord's Day. Christian Sunday.**

.4 **Sunday Observance.**

.5 **Work.**

.6 **Amusement.**

.7 **Opening Libraries and Museums.**

.8 **Sunday Laws.**

.9

264 Public Worship. Divine Service. Ritual.

General Works are divided by Churches like 280. Under various Churches the services may be further divided, as, e. g.

.03 **Anglican and American P. E. Ritual.**

- .031 Calendar. Festivals and Feasts.
- .032 Lectionary and Rubrics.
- .033 Morning Prayer. Litany.
- .034 Evening Prayer. Vespers. Compline.
- .035 Sacraments, Ordinances and Services.
- .036 Collects, Epistles and Gospels.
- .037 Ordinal. Articles. Creeds.
- .038 Psalter and Other.
- .039 History of successive Prayer Books.

- 264.1 Prayer. Extempore. Liturgic.**
See also 248-249, Private and Family Prayer.
- .2 Music. Singing. Instrumental. Praise Meeting.**
See also 783, Sacred Music.
- .3 Scripture Readings.**
- .4 Antiphonal or Responsive Readings.**
- .5 Confessions of Faith. Creeds.** See also 238, Creeds.
- .6 Sermons. Exhortations. Instructions.**
See also 251 and 252, Preaching and Sermons.
- .7 Prayer and Conference Meetings.**
- .8 Class and Covenant Meetings. Love Feasts.**
- .9 Sacramentals.** See also 265, Sacraments.

265 Sacraments. Ordinances.

- .1 Baptism.**
- .2 Confirmation. Church Fellowship.**
- .3 Eucharist. Holy Communion. Sacrifice.**
- .4 Holy Orders. Ordination.**
- .5 Marriage.** See 173, Ethics of the Family.
- .6 Penance. Confession. Absolution.**
- .7 Extreme Unction. Viaticum.**
- .8 Ministry of Sick and Dead. Faith Cure. Healing. Burial.**
- .9 Consecration. Dedication.** See 262.16, Ordination.

266 Missions. Home and Foreign.

Subdivided by Churches, like 280.

Missions in special countries or places, including those of all churches, go under the geographically divided Religious History, 274-279, with references under 266.

267 Associations. Y. M. C. A., etc.

268 Sunday Schools.

269 Revivals. Retreats. Parish Missions.

270 Religious History.

Ancient Period. To Conversion of Germans.

- .1 Apostolic. Nativity to Constantine.**
- .2 Ecumenical Councils. Centralization. A. D. 325-787.**
The Greek Church acknowledges these seven Councils as really Ecumenical. Anglicans generally recognize only the first six.
- .21 First of Nice, A. D. 325.**
- .22 First of Constantinople, 381.**
- .23 First of Ephesus, 431.**
- .24 Chalcedon, 451.**
- .25 Second of Constantinople, 533.**
- .26 Third of Constantinople, 681.**
- .27 Second of Nice, 787.**

Mediæval Period. Charlemagne to Luther.

270.3 Charlemagne. Papacy vs. Empire. A. D. 787-1054.

Church planted among the Germans. Feudalism.

.4 Hildebrand. Roman Supremacy. A. D. 1054-1200.

Temporal Power. Scholasticism. First three Crusades.

.5 Later Mediæval. Renaissance. A. D. 1200-1517.

Innocent III. Papal Schism. Avignon. Nominalism vs. Realism. Greek Church under Moslems. Education. Arts. Inventions. Pre-Reformation.

Modern Period. Reformation to present.

From A. D. 1517, Theology in Europe is in three types, viz.: Roman, Lutheran, and Reformed or Calvinistic.

.6 Reformation. Counter-Reformation. A. D. 1517-1648.

Council of Trent, A. D. 1545-93. Diet of Augsburg. Luther. Melancthon. Calvin. Knox. Religious Wars. Jesuit Missions in East.

.7 Peace of Westphalia to French Revolution. A. D. 1648-1789.

Union of Church and State. Deism. Materialism.

.8 Modern. Rationalistic.

Holy Alliance. Greek Church in Russia. Atheism. Pantheism. Protestant Missions.

271 Monastic Orders.

.1 Benedictines. Founded A. D. 592.

.2 Dominicans. " " 1170.

.3 Franciscans. " " 1182.

.4 Augustinians. " " 1256.

.5 Jesuits. " " 1540.

.6 Passionists. 1720. Redemptorists. 1732.

.7 Lesser Roman Orders.

.71 Carthusians. Founded A. D. 1086.

.72 Cistercians. " " 1098.

.73 Carmelites. 12th Century.

.74 Trappists. 1150. Capuchins. 1525.

.75 Sulpicians. 1642.

.76 Oblates.

.77 Lazarists. 1624.

.78 Christian Brothers. 18th Century. De la Salle.

.79 Other Lesser Roman Orders.

.8 Anglican Brotherhoods.

.9 Sisterhoods.

.91 Sisters of Charity. Vincent de Paul. Founded A. D. 1620.

.92 Sisters of Mercy. Augustinian. " " 1631.

.93 Ladies of the Sacred Heart. Jesuit. " " 1800.

.94 Sœurs de bon Secours. Nurses.

.95 Little Sisters of the Poor.

.96 Contemplative. Cloistered Nuns.

.97 Other Roman Sisterhoods.

.971 Carmelites.

.972 Second of St. Dominick.

.973 Franciscans.

.974 Ursulines. A. D. 1537.

.975 Of the Visitation. " 1610.

.976 Of St. Joseph. " 1650.

.977 Of the Presentation. " 1777.

.98 Anglican Sisterhoods.

.99 Other Protestant Orders. Deaconesses. (Kaiserwerth.)

272 Persecutions.

- .1 Apostolic Church by Imperial Rome. 1st to 4th Century.
- .2 Heretics, by Inquisition or Holy Office. Since 1470. „
- .3 Waldenses and Albigenses. 11th and 12th Cent. By R.Ch.
- .4 Huguenots. French Protestants. St. Bartholomew, 1572. Edict Nantes, 1598, Revocation, 1685. By Rom. Ch.
- .5 Molinists and Quietists. Close of 16th Century to destruction of Port Royal, A. D. 1709. By Roman Catholics.
- .6 Marian. Anglican Reformers by Mary. A. D. 1553-8. „
- .7 Elizabethan. Later 16th Century. Rom. Ch. by Anglicans.
- .8 Quakers. Baptists. Witches. Later 17th Cty. By Puritans.
- .9 Other Persecutions.

273 Heresies.

For the history of special Doctrines see 230-239, Doctrinal Theology.

- .1 Gnostic.—Reaction of Pantheism and Heathen Philosophy on Christianity. 1st three Centuries.
- .2 Manichæism.—Parsee Dualism. Opposition of Good and Evil. Mystic. Ascetic. 3d Century.
- .3 Sabellian.—That the Trinity is not of persons, but of successive manifestations. About 250 A. D. (Held by Schleiermacher, Bushnell, Swedenborg.)
- .4 Arian.—Denying Divinity of Christ. 4th Century.
- .5 Pelagian.—Denying Original Sin and Supernatural Grace. 5th Century.
- .6 Antinomian.—Denying force of Law, under Gospel Dispensation. 16th Century.
- .7 Molinist and Jansenist. Pietists. Port Royal.—Augustine's doctrine of Grace, vs. the Roman doctrine of Good Works. A. D. 1580-1700.
- .8 Agnostic.—Denying possibility of Revelation. Holding that Theology and the Supernatural lie without the domain of Human Knowledge.
- .9 Miner Heresies.

274 to 279 General Religious History. By Countries.

274-279 is divided geographically like 940-999.

280 Christian Churches and Sects.

281 Primitive and Oriental Churches.

See also 270.1 to 270.3, Early Religious History.

- .1 **Apostolic Church, to time of Great Schism, A. D. 1054.**

Works of Apostolic and Christian Fathers.

- .2 **Primitive Apostolic, to end of First Century.**

- .3 **Ante-Nicene, A. D. 100-325.** *See also 270.1.*

- .4 **Post-Nicene, A. D. 325-1054.** *See also 270.2-3.*

- .5 **Oriental Churches.**

- .6 **Armenian.**

- .7 **Coptic.**

- .8 **Nestorian.**

- .9 **Eastern or Græco-Russian or Holy Orthodox Church.**

The Great Schism, Mutual Ex-communication, A. D. 1054, separates the Catholic Church into Eastern and Western Churches, which from this time have separate histories.

282 Western or Roman Catholic Church.

Divided geographically like 940-999.

283 Anglican and American P. E. Church.

Divided geographically, when needed, like 940-999, e. g., The Anglican Church in Australia is 283.94.

284 Continental Protestant Sects.

- .1 **Lutheran. Reformed.**

- .2 **Calvinist; Zwinglian.** *See 285, and 286.1.*

- .3 **Hussites. Anabaptists. Leyden.** *See 286.1.*

- .4 **Albigenses. Waldenses. Vaudois.** *See 272.3.*

- .5 **Huguenots.** *See 272.4.*

- .6 **Moravian.**

- .7 **Scandinavian. Swedish.**

- .8 **Old Catholic.**

Here are classed those denying Papal Infallibility, or for other cause cut off from Rome, though Catholic in other respects.

- .9 **Other.**

285 Presbyterian. Reformed. Congregational.

- .1 **Presbyterian Church in America.**

- .2 **Presbyterian Church in Great Britain.**

- .3 **Cumberland Presbyterian.**

- .4 **United Presbyterian.**

- .5 **Reformed Presbyterian**

- .6 **Minor Presbyterian Sects.**

- .7 **Reformed (Dutch) Church in America.**

- .8 **Congregational.**

- .9 **Puritanism.**

- 286 Baptist.
- .1 Calvinistic. .2 Free Will. .3 Seventh Day.
- 287 Methodist.
- .1 Wesleyan Methodist.
 - .2 Calvinistic Methodist.
 - .3 Welsh Calvinistic Methodist.
 - .4 Primitive Methodist.
 - .5 Primitive Wesleyan.
 - .6 Methodist Episcopal.
 - .7 Protestant Methodist.
 - .8 African Methodist.
 - .9 Minor Methodist Sects.
- 288 Unitarian. See 273.4.
- 289 Minor Christian Sects.
- .1 Universalist.
 - .2 Campbellite or Christian.
 - .3 Adventist.
 - .4 New Church or Swedenborgian.
 - .5 Catholic Apostolic.
 - .6 Quakers. Friends.
 - .7 Mennonite.
 - .8 Shaker. Mystic.
 - .9 Other Minor Christian Sects.
- 290 **Ethnic. Non-Christian.**
- 291 Comparative and General Mythology.
- 292 Greek and Roman Mythology.
- 293 Teutonic and Northern Mythology.
- 294 Brahmanism. Buddhism. For other Indic Religions, see 299.1.
- 295 Parseeism. Zend Avesta. For other Iranian Religions, see 299.15
- 296 Judaism. For other Semitic Religions, see 299.2.
- 297 Mohammedanism.
- 298 Mormonism. See 173.2, Poygamy.
- 299 Minor Non-Christian Religions.
- Subdivided ethnically like 491-499.

Sociology.

300 Sociology in General.

301-309 all have Sociology in General as their subject, but it is treated in these various forms. A periodical on Law goes with 340.5, not 305, which is only for periodicals on Sociology in General. In Sociology, most works in these forms are limited to one Division, e. g. to Political Economy, Education, Law, etc. All these have the same subdivision of General Works, i. e. Essays on the various Divisions are 310.4, 320.4, 330.4, and so on to Essays on Manners and Customs in General, 390.4. A Zero in any class number shows the subject to be general, not specific.

301 Philosophy of Civilization. Theories.

See Philosophy of History, 901.

302 Compends, Outlines.

303 Dictionaries, Cyclopedias, etc.

304 Essays, Lectures, Addresses.

305 Periodicals, Magazines, Reviews.

306 Societies, Transactions, Reports.

307 Education, Teaching, Study, etc. See also 370.

308 Polygraphy, Collected Works, Extracts, etc.

309 History of Social Science.

310 Statistics.

311 Theory, Methods. Science of.

312 Population. Progress of. Vital Statistics. Births. Deaths. Mortality. Longevity.

313 Special Topics.

314 to 319 General Statistics. Divided geographically like 940-999.

The Statistics of any special matter are put with the subject, e. g. of Domestic Animals in 636, of Short Hand in 653, of French Novels in 843, of Theaters in 792, etc. Statistics too general to be included in any topic are divided by countries. The Statistics of New York City would be 317.471, but the statistics of Medicine in New York would be put with 610, Medicine, i. e., the Topic outranks the Locality.

320 Political Science.

.01, Theory of the State; .02, Compenda, Statecraft; .03, Dictionaries; .04, Essays; .05, Periodicals; .06, Societies; .07, Education; .08, Polygraphy; .09, History of Political Science.

321 Form of State.

- .1 Family. Patriarchal Age.
- .2 Tribes. Clans. Marks. Village Communities.
- .3 Feudalism.
- .4 Democracy.
- .5 Aristocracy. e. g. Italian Republics. Medieval German Cities.
- .6 Absolute Monarchy.
- .7 Constitutional Monarchy.
- .8 Republic.
- .9

322 Church and State.

323 Internal or Domestic Relations.

324 Suffrage.

- .1 Qualifications. Age. Property. Education. Color. Race, etc.
- .2 Forms of Suffrage. Universal. Limited. Minority Representation. Class System. Cumulative, etc.
- .3 Woman Suffrage.
- .4-9 In Special Countries. Divided like 940-999.

325 Colonies and Immigration.

- .1 Immigrants and Naturalization.
- .2 Emigrants.
- .3 Colonization.
- .4-9 In Special Countries. Divided like 940-999.

326 Slavery.

- .1 Slave Trade.
- .2 Coolies and Contract Slaves.
- .3 Serfs and Serfdom.
- .4 Anti-Slavery Documents.
- .5 " Societies.
- .6 " Periodicals.
- .7 Pro-Slavery.
- .8 Emancipation and Freedom.
- .9 History of Slavery. Divided geographically like 940-999.

327 Foreign Relations. Divided geographically like 940-999.

328 Legislative Bodies and Annals.

.1 Parliamentary Law.

.2

.3

.4-9 Of Special Countries.

Divided by countries like 940-99, and under each, works may be divided: .1, Journals; .2, Debates; .3, Abstracts; .4, Documents; .8, Legislative; .9, History of Bodies.

329 Political Parties. Party Conventions.

329.01, U. S. Presidential campaign documents of all parties, arranged by campaigns.

.1 Federal.

.2 Anti-Federal.

.3 Democratic.

.4 Whig.

.5 American. Know-nothing.

.6 Republican.

.7

.8 Minor Parties.

.81, Prohibition; .82, Greenback; .83, Woman Suffrage; .84, People's; .85, Labor.

.9 Parties in other Countries. Divided geographically like 940-999.

330 Political Economy.

.1, Theories; .2, Compendis; .3, Dictionaries; .4, Essays; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Polygraphy; .9, History.

331 Capital. Labor and Wages.

.1 Relations of Capital to Labor.

.2 Wages. Comparative Wages. Profit Sharing. Compulsory Insurance.

.3 Labor of Children.

.4 Labor of Women.

.5 Convict Labor. Prison Contracts.

.6 Pauper Labor. Cheap Foreign Labor. Chinese.

.7 Skilled and Unskilled Labor.

.8 Laboring Classes.

.81 Hours of Labor.

.82 Places of Labor. Dangers.

.83 Food. Clothes. Shelter.

.84 Morals and Habits. Thrift. Temperance. Amusements. Temptations.

.85 Helps. Lectures. Libraries. Reading Rooms, etc. See 021.1; 027.6.

.86 Training. Apprenticeship.

.87 Organization of Labor.

.88 Trade Unions and other Labor Societies.

.89 Strikes.

332 Banks. Money. Credit. Interest.

- .1 **Banks and Banking.**
- .2 **Savings Banks.**
- .3 **Loan Institutes.**
 - .31 Credit Institutes.
 - .32 Building Associations. See 334, Co-operation.
 - .33 Monts de Piété. Governmental.
 - .34 Pawn Shops. Private.
- .4 **Coins and Coinage. Mints.**
 - .41 Coinage Metals. Production and Value. Gold. Silver. Nickel. Copper.
 - .42 Single and Double Standard.
 - .43 International Standards.
 - .44 Monetary Congresses.
 - .45 Comparative Value of Moneys.
 - .46 Mints.
 - .47 Coinage Laws.
 - .48
 - .49 History of Mints and Coinage. Divided geographically like 940-999.
- .5 **Paper Money. Public and Private Notes.**
- .6 **Stocks and Stock Exchanges.**
- .7 **Credit. Credit System.**
- .8 **Interest and Usury.**
- .9 **Counterfeiting. Forging.** See 343, Criminal Law.

333 Land. Ownership, Rights, and Rent.

See 338, Production; and 630, Agriculture.

- .1 **State Ownership.**
- .2 **Community Ownership.**
- .3 **Private Ownership.**
- .4 **Absentee Owners. Alien Owners.**
- .5 **Rent of Land for Cultivation.**
- .6 " " **Building.**
- .7 **Forests.**
- .8 **Mines.**
- .9 **Fisheries.**

334 Co-operation.

- .1 **Building Societies. Loans. Organization.**
- .2 **Co-operative Banks.**
- .3 " **Insurance Societies.**
- .4 " **Housekeeping.**
- .5 " **Consumptive Associations. Stores.**
- .6 " **Productive Associations. Factories.**
- .7 **Friendly Societies.**
- .8 **Eurial Societies.**

335 Socialism and Communism.

- .1 English Socialism.
- .2 Saint Simonism.
- .3 Fourierism.
- .4 Communism.
- .5 German Socialism. Social Democracy.
- .6 State Socialism. Socialism of the Chair.
- .7 Christian Socialism.
- .8
- .9 Socialistic Communities.

336 Finance.

- .1 State Domain and Properties.
 - .11 Management and Income from Rents.
 - .12 Sale.
 - .13 Land Claims.
 - .14 Land Grants to Railroads, Colleges, etc.
 - .19 State Monopolies. e. g. French State Monopoly of Tobacco Trade.
- .2 Taxation.
 - .21 Direct.
 - .22 Real Estate.
 - .23 Personal.
 - .24 Income.
 - .25 Poll.
 - .26 Customs. Specific or Ad Valorem. See 337, Protection.
 - .27 Excise. Licenses. Liquor. Dog. Legacies. Stamp Duties.
 - .28 Local Taxes.
 - .29 Assessment and Collection of Taxes.
- .3 Loans. Public Securities.
 - .31 Interest-bearing Securities.
 - .32 Floating Debt.
 - .33 Sinking Fund.
 - .34 Public Credit.
- .4-9 Finance of Special Countries. Divided geographically like 940-999.

337 Protection and Free Trade.

- .1 Absolute Free Trade. No Tariff.
- .2 Free Trade, i. e. Tariff for Revenue only.
- .3 Protection.
- .4 Subsidies.
- .5 Duties on Special Articles. Steel, Wool, etc.
- .6 " " Raw Materials.
- .7 " " Books and Works of Art.
- .8 Duty Free Importation for Colleges, etc.
- .9 Reciprocity.

338 Production. Manufacture. Prices.

- .1 Agricultural Products.
- .2 Mining Products.
- .3 Water „ Fish, Ice, etc.
- .4 Manufactured Products. Machinery in Industry.
- .5 Prices.
- .6 Guilds.
- .7 Corporate Industries.
- .8 Monopolies.
- .9 Industrial Legislation. Divided geographically like 940-999.

339 Pauperism.

340 Law.

General Works.

- .1 Philosophy. Theories. Law of Nature.
- .2
- .3 Antiquities. Torture. Trial by Ordeal. Duel, etc.
- .4 Trial by Jury.
- .5 Comparative Legislation.
- .6 Medical Jurisprudence.
- .7 Education. Law School. Office Training.
- .8 Polygraphy. Collections.
- .9 Legal Anecdotes and Miscellany.

Public Law.

341 International Law.

.01, Philosophy; .02, Compends, etc., like 300.

- .1 International Congresses.
Of diplomatic agents for settling International relations. Congresses on special topics go with their subjects; e. g. 332.44, on Coinage.
- .2 Treaties. Texts and History.
Divided by countries publishing, like 940-999.
- .3 Law of War. Captives. Neutrals.
- .4 International Criminal Law.
- .5 International Private Law.
- .6 Arbitration.

342 Constitutional Law.

Divided by countries like 930-999. Under each, works may be divided: .1 Texts of Constitution. .2 Conventions. .3 Systems.
For Administrative Law, see 350.

343 Criminal Law.

- .1 Criminal Trials.
- .2 Punishments.
Corporal. Death Penalty. Hard Labor. Confinement.
- .3-9 Of Special Countries. Divided by countries like 930-999.
Under each country, works may be divided: 1, Penal Codes; 2, Reports; 3, Criminal Procedure; 4, Text Books and Manuals.

344 Martial Law.

Private Law.

345 American Statutes and Cases.

- .1 Session Laws.
- .2 Codes. Revised Statutes.
- .3 Law Digests (of Statutes).
- .4 Reports.
- .5 Digests of Cases.

346 British Statutes and Cases.

Divided like 345.

347 Treatises. American and English Private Law.

.01, Philosophy; .02, Compendis; .03, Dictionaries; .04, Essays; .05, Periodicals; .06, Societies, .08, Polygraphy; .09, History.

- .1 Persons. Legal Capacity.
- .2 Realty.
- .3 Chattels. Movable.
- .4 Contracts.
- .5 Torts.
- .6 Family Law and Inheritance.
- .7 Commercial and Maritime.
- .8 Equity.
- .9 Civil Trials. Procedure.
 - .91 Civil Trials.
 - .92 Pleading.
 - .93 Forms.
 - .94 Evidence.
 - .95 Remedies.
 - .96
 - .97 Organization of Courts.
 - .98 Jurisdictions.
 - .99 History of Special Courts.

348 Canon Law.

349 Foreign Law.

Divided like 930-990, and under each modern state divided like 345 with decimals .71 to .79 used for Treatises like 347. e. g. 349.4475 is French Law of Torts. 349.442 is French Code. Roman Law is divided:

- .37 Roman Law.
 - .01, Philosophy; .02, Compendis; .03, Dictionaries; .04, Essays; .05, Periodicals; .06, Societies; .07, Education; .08, Polygraphy; .09, History.
 - Sources. Ante-Justinian.
 - .371 " Justinian.
 - .372 " Justinian.
 - .373 History and Criticism of Sources.
 - .374 Institutes. Ancient Roman Law.
 - .375 Pandects. Modern " "
 - .376 Treatises on Special Topics. "
 - .377 " "
- Divided like 347.

350 Administration. Military Science.

351 Civil Service.

- .1 Organization. Official Functions.
- .2 Civil Lists.
- .3 Examination.
- .4 Tenure of Office. Discipline.
- .5 Pensions.
- .6 Reform. Spoils System vs. Office-holding Class.

352 Local Government. City or Town.

For Education, see 379, Public Schools; for Libraries, see 020.

- .1 Finances.
- .2 Police.
- .3 Fire Department.
- .4 Public Health. Board of Health.
- .5 Public Buildings and Works.
- .6 Water and Sewerage Works.
- .7 Streets. Highways. Bridges. Parks.
- .8 Licenses. Hack, Huckster, Entertainment, etc.
- .9 Other Topics.

353 United States and State Government.

- .1 State Department.
- .2 Treasury „
- .3 Interior „
- .4 Post Office „ See 383.
- .5 Judiciary „
- .6 War „ See 355, Army. Military Science.
- .7 Navy „ See 359, Navy. Naval Science.
- .8 Other „
- .9 State Government. Divided like 974-979.

Apply same decimals for State and Foreign Governments. For departments not here specified, use .8 and .9, and any of above numbers left blank. e. g. for a State having no Navy, .7 is free for some local use.

354 Foreign States.

Divided geographically by countries like 930-999 Under each country the U. S. divisions, .1, State; .2, Treasury, etc., may be used.

355 Army. Military Science. See 625, Military Engineering.

356 Infantry.

357 Cavalry.

358 Artillery.

359 Navy. Naval Science. See 625 8, Naval Engineering.

360 Associations and Institutions.

361 Charitable.

362 Hospitals and Asylums.

For Inebriate Asylums, see 178.6, Temperance Reformatories.

.1 Sick and Wounded. Incurables. Eye and Ear Infirmarys. Lying-in Hospitals.

.2 Insane.

.3 Idiotic.

.4 Blind. Deaf. Dumb.

.5 Paupers.

.6 Aged.

.7 Children. Orphans.

.8 Foundling.

.9

363 Political.

364 Reformatory.

365 Prisons. Discipline.

366 Secret Societies.

367 Social Clubs.

368 Insurance.

.1, Fire; .2, Marine; .3, Life; .4, Accident; .5, Animal and Crop; .6, Plate Glass; .7, Boiler; .8, Credit and Bonds; Land Titles; .9, Government Control; Commissioners.

369 Other.

370 Education.

.1, Philosophy, Theory; .2, Addresses; .5, Periodicals (for College Papers, see 378); .6, Societies, Associations; .7, Education, Teachers' Institutes, Normal Schools; .8, Polygraphy; .9, History, divided by countries, like 930-999; .3, Dictionaries, Cyclopedias; .4, Essays;

371 Teachers, Methods, and Discipline.

.1 Teachers.

- .11 Qualifications.
- .12 Training.
- .13 Examination. Certificates.
- .14 Appointment. Tenure.
- .15 Permanent Profession vs. Stepping-stone Theory.
- .16 Salary and Promotion.
- .17 Pensions for Teachers.
- .18 Women as Teachers.
- .19

.2 School Organization.

- .21 Admission. Enrollment. Matriculation.
- .22 Tuition Fees.
- .23 Terms. Vacations. Holidays.
- .24 Hours. Recess.
- .25 Classes. Grades.
- .26 Marking System.
- .27 Examinations. Oral, Written. Cramming.
- .28 Promotions.
- .29 Graduation. Diplomas.

.3 Methods of Instruction.

- .31 Rote or Concert Teaching.
- .32 Text Books. Recitations.
- .33 Lectures.
- .34 Developing or Inductive Method.
- .35 Art of Questioning.
- .36 Topical Method.
- .37 Seminary Method.
- .38 Laboratory Work.
- .39 Other Methods. Correspondence.

.4 Systems of Education.

- .41 Bell and Lancaster, or Monitorial.
- .42 Fellenberg's or Manual Labor.
- .43 Military Organization.
- .44 Pestalozzian.
- .45 Jacotot's.
- .46 Fröbel's. See 372.2, Kindergarten.
- .47 "Quincy System."

.5 Government. Discipline.

- .51 Rules.
- .52 Attendance. Truancy. Tardiness.
- .53 Rewards. Prizes.
- .54 Punishment.
 - .55 Corporal Punishment.
 - .56 Confinement. Tasks.
- .57 Monitors.
- .58 Moral Government. Alcott.
- .59 Student Self-government.

371.6 School Furniture and Apparatus.

- .61 Furniture.
- .62 Lavatories, etc.
- .63 Globes, Maps, etc.
- .64 Libraries. See 021.3.
- .65 Museums.
- .66 Apparatus.
- .67 Laboratories.
- .68 Observatories.

.7 School Hygiene.

- .71 Health of Students. Over-study.
- .72 Care of Eyes. Effect of Study.
- .73 Care of Body. Gymnastics. Calisthenics.
- .74 Recreations. Games, etc.
- .75 Championship Games. Boat-races.
- .79 Other Special Topics.

.8 Student Life and Customs.

- See 784.6, College Songs; 378.29, College Costumes.
- .81 Student Honor. Cribbing. Cheating. Keys. "Ponies."
- .82 Fagging and Hazing.
- .83 Student Organizations.
- .84 Literary Societies.
- .85 Secret Societies. See also 366, Secret Societies.
- .86 Society Houses. Halls. Temples, etc.
- .87 Dormitories.
- .88 Commons.
- .89 Customs. Celebrations. Triumphs. Burnings, etc.

.9 Education of Special Classes.

- .91 Blind. See also Asylums, 362.
- .92 Deaf and Dumb. See also Asylums, 362.
- .93 Feeble-minded.
- .94 Freedmen. Negro.
- .95 Indians.
- .96 Orientals.
- .99 Co-education of Races.

372 Elementary Education.

- .1 Special Methods of Government.
- .2 Kindergarten.
- .3 Observing Powers. Object Teaching. Science.
- .4 Reading. Alphabet. Phonics and Word Methods.
- .5 Elementary Writing and Drawing. See also 741.
- .6 Elementary Grammar. Language Lessons. See also 428.2.
- .7 Elementary Arithmetic. See also 511.
- .8 Elementary Geography. See also 910.7.
Some may prefer to put these Elementary Text Books with their subjects, but a Primer of Geography is more useful to the Student of Elementary Schools and Methods than to one interested in Description, Travels, and Geography.
- .9 Special Countries and Schools. History, Reports, etc.
Subdivided like 940-999; e. g. 372.9:2, English Elementary Schools.

373 Higher Education. Private and Endowed Schools.

See also 379 Public Schools.

- .1 Home Education. Tutor. Governess.**
- .2 Day Schools.**
- .3 Boarding Schools.**
- .4-9 Special Countries and Schools. History, Reports, etc.**
Subdivided like 940-999; 373-42, Higher English Schools.

374 Self-education and Culture.

- .1 Private Reading. Conversation. See 028.**
- .2 Reading Circles. Book and Periodical Clubs.**
- .3 Lyceums. Literary Clubs.**
- .4 Debating Societies.**
- .5 Popular Lectures.**
- .6 Popular Summer Schools.**
See also 407, 507, for Schools of Science, etc., for specialists, which are classed with their subject not with these popular gatherings.
- .7 Chautauqua.**
- .8 Societies for Home Study, Correspondence College.**
- .9**

375 Curriculum.

.01, Order of Studies; .02, Single Course; .03, Parallel Courses; .04, Optional Studies; .1-9, Special Studies, in the order and subdivided like 100-999. e. g. 375.5, Place of Science in Curriculum; 375.82, Place of English Literature; use 375.54 also for General Questions on Modern Languages, and 375.53 for Classics.

376 Education of Women.

- .1 Physical Capacity of Women.**
- .2 Mental Capacity of Women.**
- .3 Domestic Education.**
- .4 Fashionable Education.**
- .5 Conventual Education.**
- .6 Collegiate Education.**
- .7 Co-education.**
- .8 Colleges for Women.**
- .9 Special Countries and Schools. History. Reports, etc.**
Subdivided like 940-999; 376.943, Education of Women in Germany.

377 Religious, Ethical, and Secular Education.

- .1 Bible in Public Schools.
- .2 Ethical Education.
- .3 Monastic Schools.
- .4 Diocesan Schools.
- .5 Parochial Schools. See 257.
- .6 Missionary Schools. See 266.
- .7 Charity Schools.
- .8 Church and Education.
Subdivided like 280; e. g. 377.82, Relation of Catholic Church to Education.
- .9 Non-Christian Religions and Education.
Subdivided like 290; e. g. 377.97, Relation of Mohammedanism to Education.

378 Colleges and Universities. With power of conferring degrees.

- .1 University Education.
- .2 Academic Degrees and Costume.
 - .21 Degree-Confering Body. College, University, or State?
 - .22 Graded Degrees. Cum Laude, etc.
 - .23 Degrees in Course.
 - .24 Degrees on Examination.
 - .25 Honorary Degrees.
 - .26 Degrees by Purchase or Forgery.
 - .27
 - .28
 - .29 Academic Gowns and Hoods.
- .3 Fellowships. Endowment of Research.
- .4-9 Special Countries and Colleges. History, Reports, etc.
Subdivided like 940-999. e. g. 378.42, English Universities. 378.741, Maine Colleges.
The various Colleges of any section may be given each a number or be arranged alphabetically.

379 Public Schools. State Education.

- .1 Public School System.
 - .11 School Funds.
 - .12 National Aid to Education. Land Grants.
 - .13 Local Taxation.
 - .14 School Laws. School Age.
 - .15 School Supervision; National, State, and Local.
 - .16 National and State Universities.
 - .17 Secondary Schools. High Schools. Academies. Grammar Schools.
 - .18 Primary Schools.
 - .19 Evening Schools.
- .2 Illiteracy.
 - .21 Illiteracy and Crime.
 - .22 Illiteracy and Pauperism.
 - .23 Compulsory Education.
 - .24
- .3 Public vs. Private and Endowed Schools.
- .4-9 Special Countries, Sections, Cities, or Schools.
Subdivided like 940-999. e. g. 379.73, Reports of U. S. Commissioner of Education; 379.744, Education in Massachusetts; 379.747, in New York City.

380 Commerce, Communication.

- 381 Domestic Trade.
- 382 Foreign Trade. Consular Reports.
- 383 Post Office.
- 384 Telegraph. Cable. Telephone. See 654.
- 385 Railroad and Express. See 656, Railroading.
- 386 Canal and Highway Transportation. „
- 387 River and Ocean Transportation. „
- 388 City Transit. See 625.
- 389 Weights and Measures. Metrology. See 658.

390 Customs. Costumes Popular Life.

391 Costume and Care of Person.

- .1, Costumes of Men ; .2, Women ; .3, Children ; .4, Feet, Sandals, Shoes, etc. ; .5, Hair Dressing, Barbers ; .6, Care of Person, Bathing, Toilet ; .7, Ornaments and Jewelry ; .8

392 Birth, Home, and Sex Customs.

- .1, Birth Customs, Christening, Circumcision ; .2, Sacrifice and Exposure ; .3, Family and Home Relations ; .4, Betrothal ; .5, Marriage ; .6, Sex Relations, Concubinage ; .7

393 Treatment of the Dead.

- .1, Earth Burial ; .2, Cremation ; .3, Embalming, Mummies ; .4, Exposure ; .9, Special Funeral Customs, Wake, Suttee.

394 Public and Social Customs.

- .1, Eating, Banquets ; .2, Shows and Diversions ; .3, Games, Dances, etc. ; .4, Ceremonies ; .5, Processions ; .6, Fairs ; .7, Tournaments.

395 Etiquet.

396 Woman's Position and Treatment.

- .1, Emancipation ; .2, Legal Status, Property, Rights, etc. ; .3, Political Status ; See 324, Suffrage. .4, Education ; See also 376, Education of Women. .5, Employment, See 331, Labor of Women. .6, .7, Woman in Art ; .8, Woman in Literature ; .9, Woman in History, Politics, War, Amazons.

397 Gipsies. Nomads. Outcast Races.

People without nationalities who do not coalesce with the ruling people among whom they live.

398 Folk-lore. Proverbs, etc.

- .1, Primitive Traditions ; .2, Legends ; .3, Folk-lore ; .4, Fairies, Elves, etc. ; .5, Chapbooks ; .6, Riddles ; .7, Dream Books ; .8, Song Books ; Including only popular collections, hardly ranking with Poetry or Music, but useful in the study of Folk-lore, etc. .9, Proverbs.

399 Customs of War.

Weapons. War Dances. Treatment of Captives. Scalping. Mutilation. Burning. Cannibalism.

Philology.

400 Philology in General.

In Philology the general works put under 400-419 deal almost entirely with the Indo-European languages. They are put here because they cover most of the divisions of this class, and in practice are most convenient here. Under 439, 479, and 489 are placed books limited to the Teutonic, Romance, or Hellenic groups, and under 491 are placed only such general works as are specifically limited to the Indo-European group.

- 401 Philosophy, Origin of Language.
- 402 Compends, Outlines.
- 403 Dictionaries, Cyclopedias.
- 404 Essays, Lectures, Addresses.
- 405 Periodicals.
- 406 Societies, Transactions, etc.
- 407 Education, Teaching Languages.
- 408 Polygraphy, Collections.
- .9 Universal Language.
- 409 History of Language.

410 Comparative.

410-419 includes *comparative* works in *general* and also those on the Indo-European group in general, but general *and comparative* works on Teutonic group are 439; on Romance group 479; on Hellenic group 489. Everything about an individual language is put with that language.

- 411 Orthography, Orthoepy, Alphabets.
- 412 Etymology, Derivation.
- 413 Dictionaries, Lexicography.
- 414 Phonology. Visible Speech.
- 415 Grammar, Morphology, Syntax.
- 416 Prosody.
- 417 Inscriptions. Palæography. See 421.7, 471.7, 481.7, etc.
- 418 Texts.
- 419 Hieroglyphics. See 493.1.

420 English Philology.

.1, Philosophy; .2, Compendis; .4, Essays; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Collective Works; .9, History of the Language.

421 Orthography.

See also this head treated in general grammars placed under 425.

- .1 Alphabet.
- .2 Vowels. Diphthongs. Aspirates.
- .3 Consonants.
- .4 Phonetic Spelling. Spelling Reform.
- .5 Orthoepy.
- .6 Accent.
- .7 Palæography. Inscriptions.
- .8
- .9 Punctuation.

422 Etymology. Derivation.

422 is limited to Derivation. For Inflection, also called Etymology, see 425-1.

- .1 Origin and Laws of Language.
- .2 Prefixes. Suffixes.
- .3 Reduplication.
- .4 Foreign Elements.
- .5 Noun Forms. Case, Number, Diminutives.
- .6 Adjectival Forms. Degrees of Comparison.
- .7 Pronominal Forms. Personal, Possessive, Relative, etc.
- .8 Verbal Forms. Moods, Tense, Voice, etc.
- .9 Particles. Adverbs, Prepositions, etc.

423 Dictionaries. Idioms.

.1, Idioms; .2, English; .3, German, etc. Put a dictionary of two languages with the less known language. Under 423 put only English-English dictionaries. Put an English-French dictionary with French, 443.2; a French-Latin dictionary with Latin, 473.4.

424 Synonyms.

425 Grammar.

425 includes General Works, covering also Orthography and Prosody.

- .1 **Morphology. Inflection.** Divided, .5 Nouns, etc. See 442.
- .2 **Syntax.**
- .3 **Arrangement of Words and Clauses.**
- .4 **Particular Sentences; Conditional, Hypothetical, etc.**
- .5 **Nouns.**
- .6 **Adjectives. Articles.**
- .7 **Pronouns.**
- .8 **Verbs.**
- .9 **Particles.**

426 Prosody.

See also the head Prosody, in General Grammars 423.

- .1 **Quantity and Accent.**
- .2 **Versification.**
- .3 **Feet.**
- .4 **Figures of Prosody.**
- .5 **Meters.**
- .6 **Rhymes.**
- .7 **Strophe and Antistrophe.**
- .8 **Textbooks for Writing Verse.**
- .9

427 Dialects. Early Forms of Language.

Subdivided by geographical divisions like 942. The Yorkshire dialect is 427-74; Gloucestershire dialect, 427-47. The dialects of other languages take the geographical subdivisions of their countries. The earliest form is .01, etc.

428 School Books and Texts.

Including only books for *learning* the language, with grammatical or philological notes, etc. For other works see the literature of the language, 820.

- .1 **Spelling Books.**
- .2 **First Lessons.**
Including in other languages books like Fasquelle, Ollendorff, Latin Prose, etc.
- .3 **Errors of Speech. Vulgarisms. Use of Words.**
- .6 **Elementary Readers.**
- .7 **Selections.**
- .8 **Texts of Individual Authors.**
- .9 **Examination Papers.**

429 Anglo-Saxon.

The above subdivisions of English are used for all other languages and for 410, Comparative Philology.

All Languages are subdivided like 420 English.

430 German.

439 Minor Teutonic. Including general works on Teutonic group.

- .1 Low German.
- .2 Frisian. Old Saxon.
- .3 Dutch. Flemish.
- .4 Platt Deutsch.
- .5 Scandinavian.
- .6 Old Norse. Icelandic. Faroese.
- .7 Swedish.
- .8 Danish. Norwegian.
- .9 Gothic.

440 French.

449 Old French.

- .9 Provençal.

450 Italian.

459 Wallachian.

- .9 Rumansh.

460 Spanish.

469 Portuguese.

470 Latin.

479 Minor Italic. Mediæval Latin.

Including general works on Romance group.

480 Greek.

489 Minor Hellenic. Modern Greek.

Including general works on Hellenic group.

490 Minor Languages.

Each language subdivided if wished like 420 English.

491 Other Indo-European.

(Beside Teutonic, 420-439, Italic, 440-479, and Hellenic, 480-489.) This head, 491, includes general works on the Indo-European tongues, but general works on the Teutonic languages go in 439, on the Romance group in 479, on the Hellenic group in 489, while most of the material placed under 400-419 is really Indo-European; but see also 410.

- .1 **Indic.**
- .2 **Sanskrit. Prakrit.**
- .3 **Pali.**
- .4 **Modern East Indian Languages.**
 - Excluding Dravidian.
 - .41 Sindhi.
 - .42 Panjabi.
 - .43 Hindustani. Hindi.
 - .44 Bengali.
 - .45 Uriya.
 - .46 Marathi.
 - .47 Gujerati.
 - .48 Singhalese.
 - .49
- .5 **Iranic.**
 - .51 Old Persian.
 - .52 Zend. (Avestan.) Old Bactrian.
 - .53 Pehlevi. (Huzwaresh.)
 - .54 Armenian.
 - .55 Modern Persian.
 - .56 Ossetic.
 - .57 Kurdish.
 - .58 Afghani.
 - .59
- .6 **Keltic.**
 - .61 Gadhelic Group.
 - .62 Irish.
 - .63 Gaelic or Scotch.
 - .64 Manx.
 - .65 Cymric Group.
 - .66 Welsh or Cymric.
 - .67 Cornish.
 - .68 Armorican or Bas Breton.
 - .69
- .7 **Russian.**
 - .79 Ruthenian.

491.8

Other Slavonic.

South East Slavonic Group.

.81 Bulgarian. (Church Slavonic.)

.82 Servian.

.83 Kroatian.

.84 Slovenian.

West Slavonic Group.

.85 Polish.

.86 Bohemian.

.87 Moravian. Slovakian.

.88 Sorbian.

.89 Polabian.

.9 **Lettic.**

.91 Old Prussian.

.92 Lithuanian.

.93 Lettish. (Livonian.)

492

Semitic.

Northern Group.

.1 **Aramaic.**

.19 Babylon and Nineveh Cuneiform.

.2 **Chaldee.**

.3 **Syriac. (Peshito.)**

Central Group.

.4 **Hebrew.**

.5 **Samaritan.**

.6 **Phenician. (Carthaginian.)**

Southern Group.

.7 **Arabic.**

.8 **Ethiopic. (Amharic.)**

.9 **Himyaritic.**

493

Hamitic.

.1 **Old Egyptian.** See 419 Hieroglyphics.

.2 **Coptic.**

494

Scythian. Ural-Altaic. Turanian.

495

Eastern Asiatic. Chinese.

496

African.

Excluding 493 Hamitic, 492.8 Ethiopic, etc., included in families above.

497

North American.

498

South American.

499

Malay-Polynesian and other.

Natural Science.

500 Science in General.

501-509 all have *Science in General* as their subject, but it is treated in these various *forms*. A periodical on *Chemistry* goes with 540.5, not 505, which is only for periodicals on Science in General. A Zero in any class number in any part of the classification shows the subject to be general, not specific.

501 Philosophy, Theories, Utility, etc.

502 Compends, Outlines, Ancient and Mediæval Science.

503 Dictionaries, Cyclopedias, etc.

504 Essays, Lectures, Addresses.

505 Periodicals, Scientific Magazines.

506 Societies, Transactions, etc.

507 Education, Methods of Teaching and Studying, etc. See also 370.

508 Polygraphy, Collected Works, Extracts, etc.

509 History of Science.

510 Mathematics.

Works on Mathematics in General, not limited to any one or two sections, are grouped by form of treatment like Science in General above; *i. e.*, into Mathematical.

510.1, Philosophy; .2, Collections, Compends; .3, Dictionaries; .4, Essays, Papers, Tracts, Letters; .5, Periodicals; .6, Societies; .7, Education; .8, Logarithmic and other Tables, Instruments; .9, History.

511 Arithmetic.

.1 Systems of Arithmetic. See also 512.81.

.2 Notation and Numeration. Fundamental Rules.

.3 Prime Numbers.

.4 Fractions.

.5 Analysis. Permutation and Combination.

.6 Proportion and Progression.

.7 Involution and Evolution.

.8 Mercantile Rules. Interest. Alligation. Mensuration. Gauging.

.9 Problems and Tables.

512 Algebra.

- .1 Systems of Algebra.**
- .2 Numerical Equations. Imaginary Expressions.**
 - .21 Equations, 1st to 4th degrees.
 - .22 Higher Numerical Equations.
 - .23 Indeterminate Equations. Diophantine Analysis.
 - .24 Imaginary Expressions.
- .3 Algebraical Equations. Maxima and Minima.**
- .4 Series. Fractions. Binomial Theorem. Taylor's Theorem.**
- .5 Combinatory Analysis.**
- .6 Proportion and Progression.**
- .7 Involution and Evolution.**
- .8 Higher Algebra.**
 - .81 Theory of Numbers.
 - .82 Theory of Equations. Complex Variable. See also 517.8.
 - .83 Determinants.
 - .84 Symmetric Functions.
 - .85 Elimination. Eliminants and Discriminants.
 - .86 Transformations. Substitutions.
 - .87 Quantics.
 - .88 Invariants. Covariants. Contravariants.
 - .89
- .9 Problems and Tables.**

513 Geometry.

Plane and Solid Geometry bound together is put 513. Descriptive Geometry is put with Mathematical Drawing, 744.

- .1 Plane Geometry.**
 - .11 Right Lines.
 - .12 Intersecting Lines.
 - .13 Parallel Lines.
 - .14 Triangles.
 - .15 Quadrilaterals.
 - .16 Other Polygons.
 - .17 Similarity.
 - .18 Areas.
 - .19 Maxima and Minima
- .2 Curves.**
 - .21 Circles.
 - .22 Conic Sections.
 - .23 Ellipse.
 - .24 Hyperbola.
 - .25 Parabola.
 - .26 Higher Plane Curves.

513.3 Volumetric or Solid Geometry.

- .31 **Lines and Planes.**
- .32 **Intersecting Planes.**
- .33 **Parallel Planes.**
- .34 **Polyedrons,**
- .35 **Pyramids.**
- .36 **Prisms.**
- .37 **Regular.**

.4 With Curved Surfaces.

- .41 **Sphere.**
- .42 **Cone.**
- .43 **Cylinder.**

.5 Modern Geometry.

- .51 **Points. Lines. Planes. Duality.**
- .52 **Transversals.**
- .53 **Cones. Conics. Involution.**
- .54 **Radical Axes and Centres of Similitude.**
- .55 **Poles and Polars. Reciprocal Polars.**
- .56 **Harmonic and Anharmonic Properties.**
- .57 **Correspondence. Correlation of Figures.**
- .58 **Quadric Surfaces. Sphero-conics. Curves of Double Curvature.**
- .59 **Surfaces of Higher Order. Cubics.**

.6

.7

.8 Absolute or Non-Euclidean Geometry.

.9 Problems.

514 Trigonometry.

- .1 **Trigonometric Functions. General Formulæ. See 52a.7.**
- .2 **Trigonometric Series.**
- .3 **Exponential Formulæ.**
- .4 **Solution of Trigonometric Equations.**
- .5 **Plane Trigonometry. Solution of Plane Triangles. Analytical.**
- .6 **Spherical Trigonometry. General Formulæ.**
- .7 **Solution of Spherical Triangles.**
- .8 **Differences of Triangles, Plane and Spherical.**
- .9 **Problems.**

515 Descriptive Geometry and Projections.

- .1 Orthogonal Projection on Two Planes.**
 - .11 Straight Lines. Planes.
 - .12 Single Curved Lines.
 - .13 Double Curved Lines.
 - .14 Single Curved Surfaces.
 - .15 Double Curved Surfaces.
 - .16 Surfaces of Revolution.
 - .17 Warped Surfaces.
 - .18 Intersections of Surfaces.
- .2 Isometric and Analogous Projections.**
- .3 Oblique Projection.**
- .4 Conical Projection.**
- .5 Spherical Projection.**
 - .51 Orthographic.
 - .52 Globular.
 - .53 Stereographic.
 - .54 Polar.
 - .55 Gnomonic.
 - .56 Conical.
 - .57 Cylindric.
- .6 Perspective.**
 - .61 Plane. Parallel. Oblique. Angular.
See also Scene Painting.
 - .62 Cylindrical.
See also Panorama Painting.
 - .63 Shadows; Natural and Artificial Light.
 - .64 Reflections.
 - .65 Circles, Cylinders and Spheres.
 - .66 Distortions and Corrections.
Human Figure.
 - .67 Human Figure.
 - .68 New Methods. Special Devices.
- .7 Shades and Shadows.**
- .8 Stereotomy.**
 - .81 Stone Cutting.
 - .82 Carpentry.
 - .83 Stair Building.

516 Analytical Geometry.

.1	Plane Loci.
.11	Right Lines.
.12	
.13	
.14	Transformation of Co-ordinates.
.2	Curves.
.21	
.22	Conic Sections.
.23	Ellipse.
.24	Hyperbola.
.25	Parabola.
.26	Higher Plane Curves.
.3	Loci in Space.
.31	Right Lines.
.32	Planes.
.33	
.34	Transformation of Co-ordinates.
.4	Curved Surfaces.
.41	
.42	Conicoids or Quadric Surfaces.
.43	Ellipsoid.
.44	Hyperboloid.
.45	Paraboloid.
.46	Surfaces of Higher Order.
.5	Modern Analytical Geometry.
.51	Systems of Co-ordinates.
.52	Abridged Notation.
.53	Conics.
.54	Higher Plane Curves.
.55	Poles and Polars. Reciprocal Polars.
.56	Harmonic and Anharmonic Properties.
.57	Method of Projection.
.58	Quadric Surfaces. Sphero-conics. Curves of Double Curvatures.
.59	Surfaces of Higher Order. Cubics.
.6	
.7	
.8	Quaternions. Calculus of Direction and Position.
.9	Problems.

517 Calculus.

- .1 **Infinitesimal. Method of Exhaustions.**
Differential and Integral Calculus, *bound together*, is put here.
- .2 **Differential.**
 - .21 Series.
 - .22 Indeterminate Forms.
 - .23 Change of the Independent Variable.
 - .24 Theory of Plane Curves. Curve Tracing.
 - .25
 - .26 Theory of Curved Surfaces.
 - .27 Maxima and Minima.
 - .28
 - .29 Problems.
- .3 **Integral.**
 - .31 Formulæ of Reduction and Integration.
 - .32 Definite Integrals. Eulerian Integrals.
 - .33 Rectification. Quadrature. Cubature.
 - .34 Multiple Integrals.
 - .35 Laplace's Functions. Bessel's and Allied Functions.
 - .36 Elliptic and Hyperelliptic Functions. Abelian Functions.
 - .37
 - .38 Differential and Partial Differential Equations.
 - .39 Problems and Tables.
- .4 **Of Variations.**
- .5 **Of Functions.**
- .6 **Of Finite Differences.**
- .7 **Of Operations**
- .8 **Of Imaginaries. Complex Variables.** See also 512.8a.
- .9 **Problems.**

519 Probabilities.

- .1 **General Principles. Direct and Inverse Probabilities.**
- .2 **Mathematical and Moral Expectation.**
- .3 **Testimony. Decisions of Juries and Tribunals.**
- .4 **Probability of Future Events deduced from Experience.**
- .5 **Life Contingencies. Annuities. Life Insurance.**
- .6 **Errors of Observation. Mean or Average Values.**
- .7
- .8 **Method of Least Squares.**
- .9 **Problems.**

520 Astronomy.

520.1, Astrology; 520.2, Compendis; 520.3, Dictionaries; 520.4, Essays; 520.5, Periodicals; 520.6, Societies; 520.7, Study and Teaching of Astronomy; 520.8, Collections, etc.; 520.9, History of Astronomy. See Note under Natural Science in General, 500-509.

521 Theoretical Astronomy.

Mathematical investigation of celestial motions, specially of the Solar System. The motions of individual bodies are classed under separate heads in 523.

.1 Celestial Dynamics.

- .11 General Laws of Equilibrium and Motion. See also 531.2.
- .12 Law of Universal Gravitation and Motion Relative to the Sun. See also 531.51.
- .13 Problem of Three Bodies.
- .14 Figures of Heavenly Bodies.
- .15 Rotation of Heavenly Bodies.

.2 Geocentric and Heliocentric Place.

- .21 Plane of Orbit in Space.
- .22 Position of Orbit in its Plane.
- .23 Position of Body in its Orbit.
- .24 Position of Body in Space.
- .25 Heliocentric Longitude and Latitude.
- .26 Geocentric Longitude and Latitude.
- .27 Variations of Right Ascension and Declination.
- .28 Variations of Longitude and Latitude.
- .29

.3 Orbits.

- .31 Definitions of Orbits.
- .32 Determination from Three Observations.
- .33 Determination from Four Observations.
- .34 Variation of Elements of Orbit.
- .35 Correction of Approximate Elements of Orbit.
- .36 Application of Method of Least Squares.
- .37 Kepler's Problem.
- .38 Equation of Center and Radius Vector.
- .39

.4 Perturbations.

- .41 Mutual Action of Planets.
- .42 Action of Satellites.
- .43 Non-Sphericity of Planets.
- .44 Resisting Medium.

.5 Theory of Planets.

.6 Theory of Satellites.

.7 Theory of Comets.

.8 Theory of Eclipses.

.9 Precession and Nutation.

522 Practical and Spherical.

.1 Observatories.

- .11 General Plan, Location
- .12 Material and Mechanism of Dome, Drum, etc.
- .13 Transit Buildings, Wings, etc.
- .14 High Altitude Observatories.
- .15 Portable.
- .16
- .17
- .18
- .19 History and Reports of Observatories.

.2 Telescopes.

- .21 Reflecting.
- .22 Refracting.
- .23 Eye Piece and Accessories.
- .24 Object Glass.
- .25 Mounting, Tube, etc.
- .26 Equatorial Mounting.
- .27 Transit Mounting.
- .28 Observing Chairs, etc.
- .29 Famous Telescopes.

.3 Meridional Instruments.

- .31 Finding Meridian Line.
- .32 Mural Circles.
- .33 Meridian Circles.
- .34 Transit, Placing in Position.
- .35 Collimation Constant.
- .36 Level Constant.
- .37 Azimuth Constant.
- .38 Other Constants, Flexure, Index Error, etc.
- .39

.4 Extra Meridional Instruments.

- .41 Sextant and Quadrant, Reflecting Circle, Astrolabe.
- .42 Alt-azimuth.
- .43 Zenith Telescope.
- .44 Transit out of Meridian.
- .45 Heliometer.
- .46 Equatorial.
- .47 Prime Vertical.
- .48
- .49

522-5 Auxiliary Instruments.

- .51 Sidereal Clock and Chronometer.
- .52 Electro-Chronograph.
- .53 Micrometers.
- .54 Personal Equation Machine.
- .55 For Illumination.
- .56 For Solar Observation.
- .57 Artificial Horizons.
- .58 Heliostat.
- .59

.6 Auxiliary Observations.

- .61
- .62 Photometry.
- .63 Photography.
- .64
- .65 Polarization.
- .66
- .67 Spectroscopy.
- .68
- .69

.7 Spherical Astronomy. See also 514.6.

- .71 Celestial Sphere. Spherical Co-ordinates.
- .72 Rectangular Co-ordinates.
- .73 Transformation of Co-ordinates.
- .74 Differential Variations of Co-ordinates.
- .75 Interpolation.
- .76 Meridian Line. Variation of Compass.
- .77 Reduction of Observations to the Meridian.
- .78 Use of Globes.
- .79

.9 Corrections.

- .91 Parallax.
- .92 Refraction.
- .93 Semi-Diameter of Celestial Bodies.
- .94 Aberration.
- .95 Precession.
- .96 Nutation.
- .97 Personal Equation.
- .98 Instrumental Errors.
- .99

523 Descriptive Astronomy.

.1 Universe.

- .11 Structure of Universe.
- .12 Nebular Hypothesis.
- .13 Plurality of Worlds.
- .14 Space and its Temperature.
- .15 Resisting Medium.
- .16 Cosmic Dust.
- .17 Repulsive Force.

.2 Solar System.

- .21 Distributive Laws of Planets.
- .22
- .23 Conjunctions and Oppositions.
- .24 Motion of Solar System in Space.
- .25 Constitution of Planetary System.
- .26 Stability of Solar System. Ecliptic.
- .27
- .28 Orrery, Planetarium, Gyroscope, etc.
- .29 Zodiac.

.3 Moon.

- .31 Constants (Size, Mass), Distance and Parallax.
- .32 Heat and Light. Phases.
- .33 Orbit and Motions : Sidereal Month, Tropical, Perigee and Apogee, Sun and Earth's Attraction, Librations. See also 521.6 for Orbit.
- .34 Features of Surface, Mountains, Plains, etc.
- .35 Atmosphere.
- .36 Physical Condition.
- .37 Spectrum.
- .38 Eclipses.
- .39 Charts, Photographs, etc.

.4 Planets.

- .41 Mercury and intra-Mercurial.
- .42 Venus.
- .43 Mars.
- .44 Asteroids.
- .45 Jupiter.
- .46 Saturn.
- .47 Uranus.
- .48 Neptune and trans-Neptunian.
- .49 Charts, Photographs, etc.

.5 Meteors and Zodiacal Light.

- .51 Aerolites.
- .52 Fire-balls.
- .53 Meteoric Showers, Radiant Points, etc.
- .54 Systems of Meteors.
- .55
- .56 Connection of Comets and Meteors.
- .57 Spectrum.
- .58 Hight of Atmosphere from Observation.
- .59 Zodiacal Light. Aurora Borealis.

- 523.6 Comets.**
- .61 Appearance and Development.
 - .62
 - .63 Orbits.
 - .64 Remarkable Comets.
 - .65
 - .66 Physical Constitution.
 - .67 Spectrum.
 - .68
 - .69 Charts, Photographs, etc.
 - .7 **Sun.**
 - .71 Constants, Dimensions.
 - .72 Heat and Light : Theories as to Source.
 - .73 Apparent Motion. Rotation.
 - .74 Spots, Faculæ, and Other Features of Surface.
 - .75 Prominences, Chromosphere. Corona.
 - .76 Theories of Physical Constitution.
 - .77 Spectrum.
 - .78 Eclipses.
 - .79 Charts, Photographs, etc.
 - .8 **Stars.**
 - .81 Stellar Parallax, Distance.
 - .82 Heat and Light. Photometric Observations. Magnitude. Visibility.
 - .83 Proper Motion, Star-drift.
 - .84 Variable, Double, and Multiple Stars.
 - .85 Clusters and Nebulæ.
 - .86 Physical Constitution.
 - .87 Spectrum.
 - .88
 - .89 Constellations, Maps, etc.
 - .9 **Transits and Occultations.**
 - .91 Transits of Mercury.
 - .92 Transits of Venus and Solar Parallax.
 - .93 Delisle's Method.
 - .94 Halley's Method.
 - .95 Photographic Method.
 - .96 Transits of Venus to 1874.
 - .97 Transit of 1882.
 - .98
 - .99 Occultations.

[524 Maps and Observations.

Series of observatory publications may be kept together under 524, or under 522.19 with the History and Reports of the Observatory. Special maps or observations e.g. on Sun or Moon are better placed in sub-sections 9 *under these heads*, with Charts and Photographs, e.g. 523.79, thus leaving these bracketed Nos. 524 to 524.9 blank. They are printed to provide a place in case it is wished to keep *all* Maps and Observations together.

- .3 **Of Moon.** See also 523.39.
- .4 **Of Planets.** See also 523.49.
- .5
- .6 **Of Comets.** See also 523.69.
- .7 **Of Sun.** See also 523.79.
- .8 **Star Catalogues.** See also 523.89.]

525 Earth.

.1 Constants.

- .11 Mass. Weight.
- .12 Density.
- .13 Dimensions, Diameter.
- .14 Figure. Geomorphy. Equatorial Belt.
- .15 Distance from Sun.
- .16 Parallax.

.2 Heat. Light.

.3 Orbits and Motions.

- .31 Period of Revolution.
- .32 Obliquity of Ecliptic to Equator.
- .33 Eccentricity.
- .34 Perturbations.
- .35 Rotation.
- .36 Foucault's Pendulum.
- .37 Deviation of Falling Bodies and Projectiles.
- .38 Tables of the Sun. Apparent Motion.

.4 Geographical Co-ordinates.

- .41 Finding Latitude. See also 527.1.
- .42 By Meridian Altitudes.
- .43 By Pole Star.
- .44 By Altitude of two or more Stars.
- .45 By Other Methods.
- .46 Finding Longitude. See also 527.2.
- .47 Terrestrial Means. Chronometers. Telegraph. Signals.
- .48 Celestial Signals. Eclipses. Occultations. Transits.
- .49 Lunar Methods.

.5 Seasons.

- .51 Effect of Inclination of Equator to Ecliptic.
- .52 Effect of Eccentricity of Earth's Orbit.
- .53 Secular Changes of Seasons.
- .54 Seasons on Mars and Other Planets.

.6 Tides.

- .61 Mathematical Theory.
- .62 Effect of Sun and Moon in Producing Tides.
- .63 Distribution, Diurnal Inequality, Spring and Neap, Priming and Lagging.
- .64 Establishment of a Port. Coast Form Modification.
- .65 Velocity of Height of Tide Wave.
- .66 Tides on Inland Seas.
- .67 Supposed Effect in Retarding Earth's Revolution.
- .68 Tide Registering and Predicting Machines.
- .69 Tide Tables.

.7 Twilight.

526 Geodesy.

- .1 Theory and Determination of Earth's Figure.**
- .11 Potentials of Ellipsoids.
- .12 Equilibrium of Rotating Spheroid.
- .13 Law of Ellipticity.
- .14 Airy's and Pratt's Theories as to Attraction of Mountains.
- .15 Determination of Figure by Airy, by Bessel, and by Clarke.
- .16 Ellipsoidal Figure and Position of Axes.
- .17 Geoidal Figure.
- .18
- .19
- .2 Base Measuring and Apparatus.**
- .21 Standards of Length and Temperature.
- .22 Apparatus of Struve, Bessel, Colby, U. S. Coast Survey, U. S. Lake Survey, etc.
- .23 Adjustments of Apparatus.
- .24 Location of Base Line.
- .25 Field Operations.
- .26 Calculation of Results and Corrections.
- .27 Verification.
- .28
- .29
- .3 Field Work of Triangulation.**
- .31 Reconnaissance.
- .32 Stations: Names, Signals, Tripods, Scaffolds and Towers, Surface and Underground Monuments.
- .33 Observations, Instruments and Records.
- .34 Reduction to Station's Center.
- .35 Corrections for Phase of Signal and Eccentricity.
- .36 Spirit Levelling.
- .37 Barometric Levelling.
- .38 Trigonometric Levelling.
- .39
- .4 Computation of Triangulation.**
- .41 Spherical Excess.
- .42 Legendre's Theorem.
- .43 Chord Process.
- .44 By Spherical Trigonometry.
- .45 By Spheroidal Trigonometry. See also application of Least Squares, 522.6.
- .46
- .46 L. M. Z. Formulæ and Applications.**
- .47 Direct Deduction by Bessel.
- .48 Deduction by Puissant.
- .49 Tables for Computation.

526.5 Theory of Least Squares in Adjustment of Figures, etc.

- .51 Method of Independent Angles.
- .52 Adjustment of a Quadrilateral.
- .53 Adjustment of Triangulation Net.
- .54 Method of Directions.
- .55 Adjustment for Closure of a Circuit.
- .56 Method of Repetitions.
- .57 Adjustments of Base Measures.
- .58 Adjustments of Levelling.

.6 Astronomic Determinations and their Connection with Geodetic Results.

- .61 Latitude Determinations.
- .62 Longitude Determinations.
- .63 Azimuth Determinations.
- .64 Effect of Irregularities of Earth's Surface on Latitude, Longitude and Azimuth.
- .65 Effect of same on Angles of Triangle.

.7 Gravity Experiments and Results.

- .71 Mathematical Theory.
- .72 Pendulum Apparatus.
- .73 Pendulum Operations.
- .74 Corrections.
- .75 Reduction of Results.

.8 Map Projections.

- .81 Perspective Projections.
- .82 Orthomorphic Projections.
- .83 Development Projections.
- .84 Zenithal Projections.
- .85 Equivalent Projections.

.9 Surveying.

- .91 Instruments and Methods. See 526.2.
- .92 Measurement of Distances.
- .93 Measurement of Angles.
- .94 Measurement of Heights.
- .95 Levelling. See 526.36-38.
- .96 Plotting.
- .97 Computation of Areas.
- .98 Topographical Drawing.
- .99 For Special Purposes. Military, Naval, Railroad, Mining, etc.

527 Navigation.

- .1 **Finding Latitude at Sea.** See also 525-41.
- .2 **Finding Longitude at Sea.** See also 525-46.
- .3 **Finding Time at Sea.** See also 529-74.
- .4 **Sumner's Method.**
- .5 **Great Circle Sailing.**
- .6
- .7
- .8
- .9

528 Ephemerides.

- .1 **American.**
- .2 **English.**
- .3 **German.**
- .4 **French.**
- .5 **Italian.**
- .6 **Spanish.**
- .7 **Slavic.**
- .8 **Scandinavian.**
- .9 **Construction of Ephemeris.**

529 Chronology.

- .1 **Siderial and Solar Day: Apparent and Mean Time, Equation of Time, Causes of Inequality.**
- .2 **Solar Year, Months.**
- .3 **Calendars to 44 B. C.**
- .4 **Calendar of Julius Cæsar.**
- .5 **Calendar of Gregory.**
- .6 **Ecclesiastical Calendar.**
- .7 **Horology.**

- .71 **Finding Time by Transit.**
- .72 **Finding by Equal Altitudes.**
- .73 **Finding by Single Altitude.**
- .74 **Finding by Sextant.** See also 527-3.
- .75 **Time Systems, and Standards.**
- .76 **Distribution of Time.**
- .77 **Cosmic Time.**
- .78 **Instruments for Measuring: Dials, Hour-glasses, Clocks, Watches, etc.**
See 522-51 for Siderial Clocks and Chronometers.
See 681 for Clock and Watch making.
- .79

530 Physics.

Like Science in General, viz.:

General works only are arranged: 530.1, Philosophy; .2, Compendis; .3, Dictionaries; .4, Essays, Lectures, etc.; .5, Periodicals; .6, Societies; .7, Education, Methods of Teaching, Experiments; .8, Physical Units, Measuring Instruments; .9, History.

531 Mechanics.

- .1 **Pure Motion. Kinematics.**
- .2 **Statics.**
 - .21 Force and its Measure.
 - .22 Composition of Forces and Motions.
 - .23 Moments.
 - .24 Parallel Forces. Centre of Gravity.
- .3 **Dynamics.**
 - .31 Rectilinear Motion.
 - .32 Vibration.
 - .33 Undulation.
 - .34 Rotation.
 - .35 Centrifugal and Centripetal Force.
- .4 **Work. Friction.**
 - .41 Unit of Work.
 - .42 Diagram of Work.
 - .43 Laws of Friction. Modulus of Machines.
 - .44 Sliding Friction.
 - .45 Rolling Friction.
- .5 **Gravity.**
 - .51 Law of Universal Gravitation.
 - .52 Laws of Falling Bodies.
 - .53 Pendulum.
 - .54 Mass, Density, etc.
 - .55 Projectiles.
 - .56
 - .57
 - .58 Apparatus for Illustration.
- .6 **Conservation of Energy.**
- .7
- .8 **Machines. Transmission of Force.**
 - .81 Lever and Balance.
 - .82 Wheel and Axle.
 - .83 Cord and Catenary.
 - .84 Pulley.
 - .85 Inclined Plane.
 - .86 Wedge.
 - .87 Screw.
 - .88
- .9 **Tables. Problems. Questions.**

532 Liquids. Hydrostatics. Hydraulics.

- .1 Properties of Liquids. Pressure.
- .2 Equilibrium of Liquids.
- .3 Buoyant Effects. Floating Bodies.
- .4 Specific Gravity.
- .5 Liquids in Motion.
 - .51 Theoretical Flow.
 - .52 Orifices, Adjutages, Fluid Vein.
 - .53 Weirs, Overfalls.
 - .54 Pipes, Open Channels, Rivers.
 - .55 Bends, Valves, sudden enlargements and contractions.
 - .56 Efflux; variable pressure.
 - .57 Hydrometry.
 - .58 Impulse and Resistance.
 - .59 Theory of Waves.
- .6 Capillary Attraction.
- .7 Osmose. Absorption.
- .8 Applications. Machines.
 - .81 Hydraulic Press.
 - .82 Hydraulic Engine.
 - .83 Water Ram.
 - .84 Water Wheels.
 - .85 Water Blast.
- .9 Tables. Problems. Questions.

533 Gases. Pneumatics.

- .1 Properties of Gases and Vapors.
- .2 Laws of Compressibility.
- .3 Atmosphere.
 - .4 Barometer.
 - .5 Air Pump.
 - .6 Aeronautics.
- .7 Kinetic Theory of Gases.
- .8 Applications.
 - .81 Manometer. Pressure Gauges
 - .82 Condensing Pump.
 - .83 Force Pump.
 - .84 Suction Pump.
 - .85 Diving Bell.
 - .86 Forge Bellows.
 - .87 Pneumatic Dispatch.
- .9 Tables. Problems. Questions.

534 Sound. Acoustics.

- .1 Theory. Undulations.
- .2 Propagation of Sound. Velocity. Diffraction.
- .3 Musical Sound. Tuning Forks.
- .4 Analysis of Sounds. Resonators.
- .5 Superposition of Vibrations.
- .6 Graphical Representations.
- .7 Physiological. Ear and Larynx.
- .8 Applications.
- .81
- .82
- .83 Signals in Navigation.
- .84 Applications to Architecture.
- .85 Musical Instruments.
- .86 Phonograph.
- .9 Tables. Problems. Questions.

535 Light. Optics.

- .1 Theory.
- .2 Propagation. Velocity. Measurement of Light.
- .3 Reflection. Refraction. Absorption.
- .4 Dispersion. Diffraction. Interference.
- .5 Polarization. Polaroscope.
- .6 Color.
- .7 Physiological. Eye.
- .8 Applications.
- .81 Lenses.
- .82 Microscopes and Magnifiers.
- .83 Telescopes.
- .84 Spectroscopes and Spectrum Analysis.
- .85 Photography.
- .86 Other Applications of Lenses.
- .87 Mirrors and Reflecting Instruments.
- .88 Lighthouses.
- .89
- .9 Tables. Problems. Questions.

536 Heat.

- .1 Theory. Nature.**
- .2 Communication.**
- .3 Action of Bodies on Heat**
 - .31 Reflection.
 - .32 Refraction.
 - .33 Radiation.
 - .34 Absorption.
 - .35 Diathermancy.
- .4 Effects. Action of Heat on Bodies.**
 - .41 Expansion.
 - .42 Liquefaction.
 - .43 Solidification.
 - .44 Vaporization and Condensation.
 - .45 Incandescence.
 - .46 Combustion. Flame.
- .5 Temperature.**
 - .51 Thermometry.
 - .52 Pyrometry.
 - .53 Electric Methods of Measuring.
- .6 Calorimetry.**
- .7 Thermodynamics. Mechanical Equivalent.**
- .8 Applications.**
 - .81 Steam Engines.
 - .82 Gas Engines.
 - .83 Heating.
 - .84 Ventilating.
- .9 Tables. Problems. Questions.**

537 Electricity.

- .1 Theory. Nature.**
- .2 Statical.**
 - .21 Quantity, Potential.
 - .22 Conduction, Distribution.
 - .23 Machines.
 - .24 Condensers.
 - .25 Electrometers.
- .3**
- .4 Atmospheric. Lightning Rods.**
- .5 Dynamical.**
 - .51 Theory of Coils. Constants.
 - .52 Induction Spark.
 - .53 Induction Spark in rarified gases.

- 537.6 Electro Dynamics.**
- .7 Electrical Measurements.**
- .8 Applications.**
- .81 Telegraph.
- .82 Telephone. Microphone.
- .83 Dynamos. Electric Lighting.
- .84 Transmission of Power. Storage.
- .85 Electro-Metallurgy.
- .86 Galvanometers. Batteries. Coils.
- .87 Medicine.
- .88 Electric Signals.
- .9 Tables. Problems. Questions.**

538 Magnetism.

For "Animal Magnetism," Mesmerism, etc., see 134.

- .1 Theory. Properties of Magnets. Lines of Force.**
- .2 Communication. Induction. Touch.**
- .3 Electro-Magnetism.**
- .4 Diamagnetism.**
- .5
- .6
- .7 Terrestrial Magnetism.**
- .8 Applied. Magnetic Machines.**
- .9 Tables. Problems. Questions.**

539 Molecular Physics.

- .1 Theory. Molecular Structure.**
- .2 Properties of Solids.**
- .3 Elasticity. Torsion.**
- .4 Strength of Materials.**
- .5 Permanent Displacement of Molecules.**
- .51 Malleability.
- .52 Ductility.
- .53 Hardness.
- .54 Tempering.
- .6 Intermolecular Forces.**
- .7
- .8
- .9 Tables. Problems. Questions.**

540 Chemistry.

.1, Theories, Alchemy, Phlogiston; .2, Compendis; .3, Dictionaries, Cyclopedias; .4, Essays, Lectures, etc.; .5, Periodicals; .6, Societies; .7, Education, Methods of Teaching; .8, Collective Works; .9, History.

541 Theoretical Chemistry.

- .1 Atoms. Molecules.
- .2 Atomic Theory. Atomic Weights. Equivalence.
- .3 Chemical Affinity. Combustion.
- .4 Salts. Acids. Bases.
- .5 Types.
- .6 Compound Radicles.
- .7 Allotropy. Isomerism.
- .8 Solubility. Water of Crystallization.
- .9 Classification. Nomenclature. Notation. Formulæ.
Stoichiometry. Tables.

542 Practical and Experimental Chemistry.

- .1 Laboratory.
- .2 Apparatus and Manipulation.
- .3 Weighing and Measuring. Specific Gravity.
- .4 Heating. Baths.
- .5 Blowpiping. See 544-3, 549-1.
- .6 Solution. Precipitation.
- .7 Gas Manipulation. Eudiometer. See 545-6.
- .8 Electric and Galvanic Manipulation. See 537-85.
- .9 Other Operations.

543 Analysis.

Divided by material analyzed.

- .1 Food and Drink.
 - .2 Milk.
 - .3 Water.
- .4 Drugs and Medicines.
 - .5 Poisons.
- .6 Rock Analysis.
- .7 Special Inorganic Substances.
- .8 Special Vegetable Substances.
- .9 Special Animal Substances.

544 Qualitative Analysis.

- .1 **Wet Method.**
- .2 **Dry Method.** See 668, Assaying.
- .3 **Blowpiping.** See 542-5, 549.1, Mineralogy.
- .4
- .5 **Dialysis.**
- .6 **Spectrum Analysis.** See 535-84.
- .7 **Polarization.** See 535-5.
- .8
- .9

545 Quantitative Analysis.

- .1 **Gravimetric.**
- .2 **Wet Method.**
- .3 **Electrolysis.** See 537-85.
- .4 **Dry Method.**
For Assaying see 668.
- .5 **Volumetric.**
- .6 **Solutions.**
- .7 **Gases. Eudiometry.** See 542.7
- .8 **Colorimetric.**

.9 Synthesis.

546 Inorganic Chemistry.

- .1 **Non-Metallic Elements.**
- .11 **Hydrogen.**
- .12 **Halogen Group.**
- .13 **Chlorine.**
- .14 **Bromine.**
- .15 **Iodine.**
- .16 **Fluorine.**
- .17 **Nitrogen Group. Nitrogen.**
- .18 **Phosphorus.**
- .19 **Arsenic.**
- .2 **Oxygen Group.**
- .21 **Oxygen.**
- .22 **Sulphur.**
- .23 **Selenium.**
- .24 **Tellurium.**
- .25 **Carbon Group.**
- .26 **Carbon.**
- .27 **Boron.**
- .28 **Silicon.**
- .29

546.3 Metals.

.31	Alkali Group.
.32	Potassium.
.33	Sodium.
.34	Lithium.
.35	Rubidium.
.36	Caesium.
.37	
.38	
.39	
.4	Alkaline Earths.
.41	Calcium.
.42	Strontium.
.43	Barium.
.44	Magnesium Group.
.45	Beryllium.
.46	Magnesium.
.47	Zinc.
.48	Cadmium.
.49	
.5	Lead Group.
.51	Lead.
.52	Thallium.
.55	Silver Group
.56	Copper.
.57	Silver.
.58	Mercury.
.59	
.6	Cerium Group.
.61	Yttrium.
.62	Cerium.
.63	Lanthanum.
.64	Didymium.
.65	Erbium.
.66	Aluminium.
.67	Indium.
.68	Gallium.
.69	Scandium.
.7	Iron Group.
.71	Manganese.
.72	Iron.
.73	Cobalt.
.74	Nickel.
.75	Chromium Group.
.76	Chromium.
.77	Molybdenum.
.78	Tungsten.
.79	Uranium.

546 8	Tin Group.
.81	Tin.
.82	Titanium.
.83	Zirconium.
.84	Thorium.
.85	Vanadium Group. Vanadium.
.86	Antimony.
.87	Bismuth.
.88	Tantalum.
.89	Niobium.
.9	Platinum Group.
.91	Gold.
.92	Platinum.
.93	Iridium.
.94	Osmium.
.95	Ruthenium Group.
.96	Ruthenium.
.97	Rhodium.
.98	Palladium.
.99	

547 Organic Chemistry.

.1	Cyanogen and its Compounds.
.2	Hydrocarbons. Fatty Series.
.21	Paraffins.
.22	Olefines.
.23	Acetylenes.
.24	Valylene. Dipropargyl, etc.
.25	Aromatic Series.
.26	Benzenes.
.27	Diphenyl Group.
.28	Naphthalene. Anthracene. Phenanthrene.
.29	Higher Series.
	<small>The seven heads 547.3 to 547.9 are sub-divided like 547.2.</small>
.3	Alcohols. Phenols.
.4	Ethers. Simple. Compound. Haloid.
.5	Aldehydes.
.6	Ketones. Quinones.
.7	Acids. Acid Halides. Acid Anhydrides. Sulpho-acids.
.8	Nitro-derivatives. Amines. Compound Ammoniums.
	Amids. Amic Acids. Azo-bodies. Azoxy-bodies.
	Hydrazo-bodies. Diazo-bodies.
.9	Compounds with Metals.

548 Crystallography.

- .1 Systems of Crystallization.
- .2 Twin Crystals. Crystalline Aggregations.
- .3 Cleavage. Isomorphism. Polymorphism.
- .4 Irregularities. Internal Imperfections.
- .5 Formation and Growth of Crystals.
- .6 Pseudomorphs.
- .7 Mathematical. Measurement of Angles.
- .8 Physical.
- .9 Optical.

549 Mineralogy.

.01, Philosophy, Classification; .02, Compendis; .03, Dictionaries; .04, Essays, Papers, etc
.05, Periodicals; .06, Societies; .07, Study and Teaching, Museums; .08, Collectiv
Works; .09, History.

- .1 Determinative. Blowpiping.
- .2 Native Elements.
- .3 Sulphides, Tellurides, Selenides, Arsenides, Antimonides
Bismuthides.
- .4 Compounds of Chlorine, Bromine, Iodine, and Fluorine
- .5 Oxygen Compounds. Oxids.
- .6 Silicates.
 - .61 Anhydrous.
 - .65 Hydrous.
- .7 Other Ternary Oxygen Compounds.
 - .71 Tantalates. Columbates.
 - .72 Phosphates. Arsenates. Vanadates. Antimonates. Nitrates.
 - .73 Borates.
 - .74 Tungstates. Molybdates. Chromates.
 - .75 Anhydrous Sulphates.
 - .76 Hydrous Sulphates.
 - .77 Tellurates.
 - .78 Carbonates.
 - .79 Oxalates.
- .8 Hydrocarbons.
- .9 Geographical Distribution.

550 Geology.

550.1, Philosophy, Theories, Geological Time; .2, Compendis; .3, Dictionaries; .4, Essays, Papers, Tracts, Letters; .5, Periodicals; .6, Societies; .7, Study and Teaching, Museums; .8, Collective Works; .9, History.

551 Physical and Dynamical Geology.

Including Physical Geography. For Cosmical Geography, see 523.

.1 Structure of Earth as a Whole.

- .11 Interior of Earth.
- .12 Internal Heat.
- .13 Earth's Crust.
- .14 Conductivity of Rocks.

.2 Seismology.

- .21 Volcanoes.
- .22 Earthquakes.
- .23 Hot Springs, Geysers.
- .24 Oscillations of the Earth's Crust.

.3 Erosion and Deposition.

- .31 Glaciers and Glacial Phenomena.
- .32 Moraines.
- .33 Transported Materials, Till.
- .34 Icebergs.
- .35 Aqueous Erosion.
- .36 Coast Changes.
- .37 Aerial Erosion.

.4 Surface Features of the Earth.

- .41 Continents.
- .42 Islands.
- .43 Mountains. Valleys. Orology.
- .44 Caves.
- .45 Plains.
- .46 Oceans.
- .47 Ocean Currents.
- .48 Rivers. Lakes.
- .49 Springs.

.5 Meteorology.

- .51 Atmospheric Currents, Winds.
- .52 Thermometry, Heat.
- .53 Hypsometry.
- .54 Barometry, Pressure.
- .55 Storms.
- .56 Climate.
- .57 Moisture. Rainfall.
- .58 Prairies, Forests, and Deserts.

.6 Metamorphism.

.7 Stratigraphical Geology.

- .71 Archæan.
- .72 Cambrian.
- .73 Silurian, Lower and Upper.
- .74 Devonian
- .75 Carboniferous.
- .76 Triassic and Jurassic.
- .77 Cretaceous.
- .78 Tertiary and Quaternary.
- .79 Recent.

551.8	Structural Geology.
.81	Stratification.
.82	Curvature and Contortion.
.83	Ripple Marks and Sun Cracks.
.84	Joints. Polarity in Rocks.
.85	Dip. Outcrop. Strike.
.86	Anticlinal. Synclinal.
.87	Faults and Folds.
.88	Formation of Veins and Dykes.
.89	Cleavage of Rocks.
.9	Agents of Geological Work.
.91	Frost.
.92	Water.
.93	Atmosphere.
.94	Chemical Changes. Heat.
.95	Animals.
.96	Coral Reefs.
.97	Plants.
.98	Segregation and Concretion.
.99	Other Agents.

552 Lithology, Petrography.

.1	Igneous Rocks.
.2	Volcanic Rocks.
.21	Lavas.
.22	Pumice. Scoria. Volcanic Ashes.
.23	Obsidian. Pitchstone.
.24	Trachyte. Volcanic Tufa. Tuff.
.25	Rhyolite.
.26	Andesite. Dacite.
.27	Felsites.
.28	Basalt.
.29	Other Volcanic Rocks.
.3	Plutonic Rocks.
.31	Porphyry. Porphyrite.
.32	Syenite.
.33	Granite.
.34	Diabase.
.35	Dolerite.
.36	Diorite.
.37	Melaphyr.
.38	
.39	Other Plutonic Rocks.
.4	Metamorphic Rocks.
.41	Granites and Syenites.
.42	Gneiss.
.43	Schists.
.44	Slates. Argillite.
.45	Quartzite. Novaculite. Itacolumite.
.46	Marble.
.47	Serpentine.
.48	
.49	Other Metamorphic Rocks.

552.5 Sedimentary Rocks.

- .51 Sandstone. Conglomerate. Sand. Gravel.
- .52 Shale. Clay Silt.
- .53 Gypsum. Salt.
- .54 Limestone. Marl. Ooze.
- .55 Dolomite.
- .56 Öölite.
- .57 Infusorial or Diatomaceous Earth.
- .58 Glauconite. Greensand.
- .59 Other Sedimentary Rocks.

.6 Meteorites.

.7 Decay of Rocks.

.8 Microscopical Lithology.

553 Economic Geology.

.1 Ore Deposits.

- .11 Formation and Structure.
- .12 Classification.
- .13 Superficial. Placers.
- .14 Stratified. Beds, etc.
- .15 Unstratified.
- .16 Disseminated through eruptive rocks.
- .17 Stockwerks. Fahlbands. Contacts.
- .18 Chambers and Pockets. Impregnations.
- .19 Mineral Veins.

.2 Carbon Series.

- .21 Peat.
- .22 Lignite and Jet.
- .23 Cannel Coal. Bituminous Shale.
- .24 Bituminous and Semi-Bituminous Coals.
- .25 Anthracite and Graphitic Anthracite.
- .26 Graphite. Plumbago.
- .27 Asphalt and Asphaltic Coals. Ozocerite.
- .28 Petroleum. Natural Gas.
- .29 Fossil Gums and Resins.

.3 Ores of Iron.

.4 Ores of Metals other than Iron.

- .41 Ores of Gold.
- .42 Ores of Silver.
- .43 Ores of Copper.
- .44 Ores of Lead.
- .45 Ores of Zinc and Tin. Mercury.
- .46 Ores of Manganese and Chromium.
- .47 Ores of Antimony and Arsenic.
- .48 Ores of Nickel and Cobalt.
- .49 Other Metallic Ores.

553.5 Building Stones.

- .51 Marbles and Limestones.
- .52 Granites and Syenites.
- .53 Sandstones.
- .54 Slates.
- .55 Serpentine. Soapstones.
- .56 Porphyries.
- .57 Trap.
- .58 Tufa. Peperino.
- .59 Other Building Stones.

.6 Earthy Economic Minerals.

- .61 Fire Clays. Brick Clays. Potter's Clays.
- .62 Sands.
- .63 Rock Salt. Gypsum.
- .64 Phosphates. Apatite. Guano.
- .65 Emery.
- .66 Heavy Spar. Sulphur.
- .67 Asbestos, etc.
- .68 Limes and Mineral Cements.
- .69 Other Earthy Economic Minerals.

.7 Mineral Waters.

- .71 Alkaline.
- .72 Saline.
- .73 Chalybeate, Iron-bearing.
- .74 Sulphuric.
- .75 Calcic.

See also 551.23.

.8 Gems. Ornamental Stones.

.9 Other Economic Minerals.

- 554 Geology of Europe. 554-559 subdivided by countries like 940-990.
- 555 Geology of Asia.
- 556 Geology of Africa.
- 557 Geology of North America.
- 558 Geology of South America.
- 559 Geology of Oceanica. Polar Regions.

560 Paleontology.

- 561 Plants. 561 is subdivided like Botany, 530.
- 562 Invertebrates. 562-569 is subdivided like Zoology, 592 599.
 - 563 Protozoa. Radiates.
 - 564 Mollusks.
 - 565 Articulates.
- 566 Vertebrates.
 - 567 Fishes. Batrachia.
 - 568 Reptiles. Birds.
 - 569 Mammals.

570 Biology.

570.1, Philosophy; .2, Compendis; .3, Dictionaries; .4, Essays, Lectures, etc.; .5, Periodicals; .6, Societies; .7, Study and Teaching, Museums; .8, Collective Works; .9, History.

571 Prehistoric Archæology.

For Customs, see 390.

.1 Paleolithic, or Early Stone Age.

- .11 Drift Remains.
- .12 Cave Men.
- .13 Remains of Animals. Shells.
- .14 Chipped Stones.
- .15 Flint Flakes. Arrow Heads. Knives, etc.
- .16 Other Stone Remains.
- .19 Other Remains.

.2 Neolithic, or Late Stone Age.

- .21 Stone Quarries.
- .22
- .23 Remains of Animals.
- .24 Polished Stones.
- .25 Sharpened Stones. Celts. Tools. Weapons.
- .26 Perforated Stones. Spindles. Net Sinkers. Pipes.
- .27 HOLLOWED STONES. Mortars. Cups. Food Vessels.
- .28 Other Stone Remains.
- .29 Other Remains.

.3 Bronze Age.

- .31 Ancient Copper and Tin Mining.
- .34 Bronze Remains.
- .35 Tools. Weapons, etc.
- .37 Cups. Vessels.
- .39 Other Remains.

.4 Iron Age.

.5 Other Remains.

- .51 Implements of Wood.
- .52 Implements of Bone.
- .53 Basket Work.
- .54 Textile Fabrics.
- .55 Pottery.
- .56 Glass.

.6

.7 Rudiments of Art. Ornaments.

- .71 Drawings.
- .72 Paint.
- .73 Sculptures.
- .74 Beads.

.8 Dwellings.

- .81 Natural Caves.
- .82 Earth Houses. Pit Dwellings. Weems.
- .83 Lake Dwellings. Crannoges.
- .84 Cliff Dwellings.
- .85 Pueblos.

571.9 **Mounds and Monuments.**

- .91 Mounds and Mound Builders.
- .92 Grave Mounds.
- .93 Kitchen Middens. Shell Banks.
- .94 Monoliths. Cromlechs.
- .95 Circles. Labyrinths.
- .96 Cairns.
- .97
- .98
- .99

572 **Ethnology.**

- .1 **Unity of the Human Race.**
- .2 **Diversity of Races.**
- .3 **Migrations of Men.**
- .4
- .5
- .6
- .7
- .8 **Races divided by Language.**
- .9 **Races divided by Countries.**

573 **Natural History of Man.**

- .1 **Man's Place in Nature.**
- .2 **Origin of Man.**
- .3 **Antiquity of Man.**
- .4 **Influence of Climate and Surroundings.**
- .5 **Color in Man.**
- .6 **Anthropometry.**
- .7 **Craniology.**
- .8 **Dwarfs and Giants.**
- .9 **Monstrosities.**

575 **Evolution.**

- .1 **Heredity.**
- .2 **Variation.**
- .3 **Environment.**
- .4 **Natural Selection.**
- .5 **Sexual Selection.**
- .6 **Development. Survival of the Fittest.**
- .7 **Degeneration.**
- .8 **Origin of Species.**
- .9 **Origin of Sexes.**

576 **Origin and Beginnings of Life.**

- .1 **Spontaneous Generation.**
- .2 **Protoplasm. Bioplasm.**
- .3 **Cells.**
- .4 **Beginnings of Motion and Sensation.**
- .5
- .6

577 **Properties of Living Matter.**

- .1 **Chemical. Difference between Organic and Inorganic.**
- .2 **Life. Difference between Dead and Living Matter.**
- .3 **Difference between Vital and Physical Phenomena.**
- .4 **Conditions of Life. Moisture. Temperature.**
- .5 **Difference between Plants and Animals.**
- .6 **Vital Force.**
- .7 **Death.**
- .8 **Sex in Nature.**
- .9

578 **Microscopy.**

- .1 **Varieties of Microscopes.**
- .2 **Optical Parts.**
- .3 **Mechanical Parts.**
- .4 **Accessory Apparatus and Management of Microscope.**
- .5 **Illuminating Apparatus.**
- .6 **Preparation and Mounting of Objects.**
- .7 **Special Preparation of Inorganic Material.**
- .8 **Special Preparation of Botanical Material.**
- .9 **Special Preparation of Zoological Material.**

579 **Collectors' Manuals.**

- .1 **Preparing Skeletons.**
- .2 **Preservatives and Hardening Fluids.**
- .3 **Injections.**
- .4 **Taxidermy.**
- .5 **Mounting Specimens.**
- .6
- .7 **Arrangement of Specimens in Museums.**
- .8
- .9

580 Botany.

580.1, Philosophy, Classification, Nomenclature; .2, Compendia; .3, Dictionaries, Cyclopedias; .4, Essays; .5, Periodicals; .6, Societies; .7, Study and Teaching, Herbariums, Botanic Gardens; .8, Collective Works; .9, History.

581 Physiological and Structural Botany.

Subdivided where wished like 591.

- .1 Physiology.
- .2 Pathology. Teratology.
- .3 Embryology. Germination.
- .4 Morphology. Comparative Anatomy.
- .5 Habits.
- .6 Economic.
- .7 Organography. Descriptive Anatomy.
- .8 Histology.

.9 Geographical.

- .91 Distribution of Plants.

.93-.99 is subdivided like 930-999.

This Geographical Classification is to be used only for general works and cross-references. The "Flora of North America" is put 581.97; but "North American Cryptogams" is classed 586 with a reference from 581.97.

General Works covering both Phanerogamia and Cryptogamia are put under 580, as books on Vertebrates and Invertebrates are put under 590.

582 Phanerogamia.

583 Dicotyledonæ.

- .1 Polypetalæ.
- .5 Gamopetalæ.
- .9 Apetalæ.

584 Monocotyledonæ.

- .1 Spadicifloræ.
- .3 Corollifloræ.
- .8 Glumiferæ.

585 Gymnospermæ.

- .1 Gnetaceæ.
- .2 Coniferæ.
- .9 Cycadaceæ.

586 Cryptogamia.

587 Pteridophyta.

- .1 Isoetæ.
- .2 Equisetæ.
- .3 Filicinæ.
- .9 Lycopodinæ.

588 Bryophyta.

- .1 Sphagna.
- .2 Musci.
- .3 Hepaticæ.
- .4 Characæ.

589 Thallophyta.

- .1 Lichens.
- .2 Fungi.
- .3 Algæ.
- .4 Carposporæ.
- .5 Oosporæ.
- .6 Zygosporæ.
- .7 Protophyta.
- .8 Chlorophyllæ.
- .9 Achlorophyllæ. Yeast. Bacteria.

In applying these numbers to Fossil Plants, 561, note that one more figure must be used than in Fossil Animals. The Zoology numbers are already given in the third place in Paleontology, e. g. 592 Invertebrates, 562 Fossil Invertebrates, and so on to 599 Mammals, and 569 Fossil Mammals. But in Fossil Plants, 561, all eight sections are grouped together and the section number must be repeated. Fossil Phanerogams are 561.2 not 562, which is assigned to Invertebrate Zoology as more important. Lichens are 561.91, etc. In the same way the Fossil Flora of North America is 561.197, i. e., the first two Botany figures, 58, are changed to 561 to give the corresponding Fossil Botany number, while in Zoology the only change is from 59 to 56 for first two figures, except in 591, which can not change to 561, which is assigned to Botany. The Fossil Fauna of North America must therefore go among general works under 560.

590 Zoology.

590.1, Philosophy, Classification; .2, Compendis; .3, Dictionaries; .4, Essays, Lectures, etc.; .5, Periodicals; .6, Societies; .7, Study and Teaching, Zoological Gardens, Aquaria, Museums; .8, Collective Works; .9, History.

591 Physiological Zoology.

.1 Physiology.

.11 Circulation.

.12 Respiration.

1, Nature; 2, Dermal; 3, Aquivascular; 5, Branchial; 6, Tracheal; 7, Pulmonary; 9, Exhalation of Aqueous Vapor.

.13 Nutrition.

1, Acquisition of Food; 2, Digestion of Food; 3, Assimilation of Food; 4, Growth; 5, Development; 6, Repair of Waste; 7, Production of Organic Material; 8, Conditions of Nutritive Activity; 9, Longevity, Vitality.

.14 Secretion and Excretion.

1, Mucous and Sebaceous; 2, Sericeous; 3, Digestive, salivary, gastric, pancreatic, 4, Odoriferous, sweet, etc.; 5, Poisonous, gall-formation, caprification; 6, Mammary, spermatric; 7, Lachrymal, 8, Biliary; 9, Urinary and Fecal.

.15 Variation.

1, Polymorphic; 2, Geographic; 3, Heterophagic; 4, Polygeneitic; 5, Mimetic; 6, Sexual; 7, Hybrids; 8, Monstrosities.

.16 Generation.

1, Abiogenesis; 2, Parthenogenesis, neuters; 3, Metagenesis, parthenogenesis, nurses; 5, Fission and Gemmation; 6, Fecundation; 7, Hermaphrodites, 8, Vivipara; 9, Superfecundation.

.17 Histogenesis.

1, Development of Sperm-cells; 2, Development of Germ-cells, micropyle; 9, Reparation of Wounds.

.18 Nervous Functions and Sensation.

.19 Other Functions.

.2 Pathology.

.3 Embryology.

33, Development of Embryo; 34, Metamorphosis, larva, pupa, moulting; 35, Hypermetamorphosis; 36, Production of Sexes.

.4 Morphology. Comparative Anatomy.

.41 Circulatory Organs.

.42 Respiratory Organs.

.43 Nutritory Organs.

.44 Secretory and Excretory Organs.

.45

Generatory Organs.

.47 Motory Organs.

.48 Nervous System.

.49 Integument. Dermoskeleton. Skeleton.

.5 Habits and Behavior.

.51 Instinct. Reason.

.52 Abode. Migration.

.53 Food.

.54 Seasons. Hibernation.

.55 Sociability.

.56 Philoprogenitiveness. Breeding.

.57 Means of Protection.

.58

.59 Other Habits.

- 591.6 Economic.**
- .61 Usefulness.
 - .62 In Nature.
 - .63 As Food and Medicine for Man.
 - .64 In Chemistry and Manufactures.
 - .65 Noxiousness.
 - .66 Offensive Animals.
 - .67 Animals causing Diseases.
 - .68 Injuring Vegetable and Animal Products and Inorganic Substances.
 - .69 Injuring Living Plants and Animals.
 - .7 **Organography. Descriptive Anatomy.**
Subdivided like 591.4, Morphology.
 - .8 **Histology.**
 - .9 **Geographical Distribution of Animals.**
Subdivided like 930-999.

592 Invertebrates.

593 Protozoans. Radiates.

- .1 **Protozoans.**
- .11 **Rhizopoda.**
- .12 Foraminifera.
- .13 Heliozoa.
- .14 Radiolaria. Polycystina.
- .15 **Infusoria.**
- .16 Flagellata.
- .17 Ciliata.
- .18
- .19 **Gregarinidæ.**
- .2 **Radiates.**
- .3 **Cœlenterata.**
- .4 **Sponges. Porifera. Spongia.**
- .5 **Cnidaria.**
- .6 **Actinozoa. Polyyps. Corals and Sea Anemones.**
- .61 **Rugosa. Tetracorolla.**
- .62 **Alcyonaria. Octocorolla.**
- .63 **Zoantharia. Hexacorolla.**
- .64 Antipatharia.
- .65 Actinaria.
- .66 Madreporaria.
- .7 **Hydrozoa.**
- .71 **Hydromedusæ.**
- .72 **Siphonophora.**
- .73 **Acalepha.**
- .74 Calycozoa.
- .76 Marsupialida.
- .77 Discophora. Jelly Fish.
- .8 **Ctenophora. Jelly Fish.**

- 593.9 Echinodermata.**
- .91 Crinoidea. Sea Lilies.
 - .92 Asteroidea. Star Fish.
 - .93 Stelleridea.
 - .94 Ophiuridea.
 - .95 Echinoidea. Sea Urchins.
 - .96 Holothuroidea. Sea Cucumbers.
 - .97 Pedata.
 - .98 Apoda.
 - .99 Enteropneusta.
- 594 Mollusks.**
- .1 Lamellibranchiata. Bivalves.
 - .2 Scaphopoda.
 - .3 Gastropoda. Univalves.
 - .4 Pteropoda. Winged Shells.
 - .5 Cephalopoda. Squids and Cuttle Fish.
 - .6 Molluscoidea.
 - .7 Bryozoa. (Polyzoa.) Sea Mats.
 - .8 Brachiopoda. Lamp Shells.
 - .9 Tunicata. (Ascidia.) Sea Grapes.
- 595 Articulates.**
- .1 Worms. Vermes.
 - .2 Arthropoda.
 - .3 Crustacea.
 - .31 Entomostraca. Cyclops, Shrimps, etc.
 - .32 Phyllopora.
 - .33 Ostracoda.
 - .34 Copepoda.
 - .35 Cirrepedia. Barnacles, etc.
 - .36 Malacostraca. Sandbugs, Crabs, Lobsters, etc.
 - .37 Arthrostraca.
 - .38 Thoracostraca.
 - .39 Gigantostraca. Trilobites.
 - .4 Arachnida. Spiders. Scorpions.
 - .5 Onychophora.
 - .6 Myriopoda. Centipedes, etc.
 - .7 Insects. Insecta. Hexapoda.
 - .71 Thysanura.
 - .72 Neuroptera. Dragon Flies, etc.
 - .73 Orthoptera. Grasshoppers, etc.
 - .74 Hemiptera. Bugs, etc.
 - .75 Coleoptera. Beetles, etc.
 - .76 Diptera. Flies, etc.
 - .77 Lepidoptera. Butterflies, Moths.
 - .78 Hymenoptera. Bees, Wasps, etc.

596 Vertebrates.

597 Fishes. Pisces.

- .1 Pharyngobranchii. Lancelet.
- .2 Marsipobranchii. Lampreys.
- .3 Elasmobranchii. Sharks, Rays, etc.
- .4 Ganoidii. Sturgeons, Garpikes, etc.
- .5 Teleostii. True bony fishes.
- .6 Batrachia. (Amphibia.)
- .7 Ophiomorpha.
- .8 Anura. Toads, Frogs.
- .9 Urodela. Salamanders.

598 Reptiles. Birds.

- .1 Reptiles.
- .11 Lacertilia. Lizards.
- .12 Ophidia. Snakes.
- .13 Chelonia. Turtles.
- .14 Crocodilia. Crocodiles.
- .15 Ichthyopterygia.
- .16 Sauropterygia.
- .17 Anomodontia.
- .18 Pterosauria.
- .19 Dinosauria.
- .2 Birds. Aves.
- .3 Gallatores. (Waders.)
- .4 Natatores. (Swimmers.)
- .5 Cursores. (Runners.)
- .6 Rasores. (Scratchers.)
- .7 Scansores. (Climbers.)
- .8 Insessores. (Perchers.)
- .9 Raptores. (Birds of Prey.)

599 Mammals. Mammalia.

- .1 Monotremata. Duck-billed Platypus.
- .2 Marsupialia. Kangaroos, Opossums.
- .3 Edentata. Rodentia. Insectivora. Sloths. Rodents.
Moles.
- .4 Cheiroptera. Bats.
- .5 Cetacea. Sirenia. Whales, etc.
- .6 Proboscidea. Hyracoidea. Elephants. Hyrax.
- .7 Ungulata. Carnivora. Domestic Mammals.
- .8 Quadrumana. Apes.
- .9 Bimana. Man.

Useful Arts.

600 Useful Arts.

- 601 Philosophy. Theories, etc.
- 602 Compends. Outlines.
- 603 Dictionaries. Cyclopedias.
- 604 Essays. Lectures. Addresses.
- 605 Periodicals. Magazines. Reviews.
- 606 Societies. Fairs. Exhibitions.
- 607 Education. Schools of Technology.
- 608 Patents. Inventions.
- 609 History of Useful Arts in General.

For its History, see each special department.

610 Medicine.

It has seemed better to leave a number of subjects undivided in this edition rather than print a hurriedly made subdivision which would need to be altered or extended. Medicine will be divided minutely for the use of medical libraries and physicians in keeping notes, etc. As fast as the extended divisions are made they will be printed on sheets in form for insertion in these books at their proper place. Specialists interested in any topic where further subdivision would be useful, are urged to send their suggestions and schemes to the author to be used for the common benefit of users of the system. The subdivisions of 623 indicate and illustrate this point. For these the author is chiefly indebted to Mr. Chas. H. Swan, late City Engineer of Providence, R. I., now of Boston.

- 611 Anatomy.
- 612 Physiology.
- 613 Hygiene. Gymnastics. Training.
- 614 Public Health. See also 629, Sanitary Engineering.
- 615 Materia Medica. Therapeutics.
- 616 Pathology. Diseases. Treatment.
- 617 Surgery. Dentistry. Anæsthetics.
- 618 Obstetrics. Sexual Science. See 176, Sexual Ethics.
- 619 Veterinary Medicine.

620 Engineering.

- .01, Statistics; .02, Quantities and Cost; .03, Contracts and Specifications; .04, Designs and Drawings; .05, Executive; .06, Working and Maintenance; .07, Laws; .08, Patents; .09, Reports.
- .1, Strength of Materials; .2, Compendis; .3, Dictionaries, Cyclopedias; .4, Essays; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Tables and Calculations; .9, History of Engineering.

621 Mechanical Engineering.

May be subdivided like 620 and 620.0.

- .1 Steam Engineering.** See 536.81.
- .11 Mechanism of Steam Engine.
- .12 Marine Engines and Ship Propulsion. See 699.
- .13 Locomotive Engines.
- .14 Traction Engines.
- .15 Portable Engines.
- .16 Stationary Engines.
- .17
- .18 Steam Generation. Boilers. Furnaces.
- .19 Steam Heating. See 697.
- .2 Water Engines or Motors.**
- .21 Water Wheels. See 532.84.
- .22 Overshot and Breast Wheels.
- .23 Undershot Wheels.
- .24 Turbines.
- .25 Water Pressure Engines. See 532.8a.
- .26 Hydraulic Presses. See 532.81.
- .27 Hydraulic Ram. See 532.83.
- .28
- .29 Mill Dams. Sluices, etc. See 628.
- .3 Electrical Machines.**
- .31 Dynamo Machines. See 537.83.
- .32 Electric Lighting. See 537.83.
- .33 Electric Railways.
- .34 Transmission of Electric Force. See 537.84.
- .35 Storage of Electric Force. See 537.84.
- .4 Air and Gas Engines.**
- .41 Caloric Engines.
- .42 Compressed Air Engines.
- .43 Ignited Gas Engines. See 536.82.
- .44 Binary Vapor Engines.
- .45 Windmills.
- .5 Air Compressors. Ice Machines.**
- .6 Blowing and Pumping Engines.**
- .61 Piston Blowers.
- .62 Rotary Blowers. Fans.
- .63 Centrifugal Blowers.
- .64 Steam Pumps and Pumping Engines.
- .65 Piston Pumps.
- .66 Rotary Pumps.
- .67 Centrifugal Pumps.
- .68 Fire Engines. See 352.3, Fire Dep't.
- .69

621.8 Mill Work and Mechanism.

- .81 Principles of Mechanism. See 531.8.
- .82 Journals, Shafting, etc.
- .83 Toothed Wheels.
- .84 Valve Motions and Gears.
- .85 Machinery and Mill Gearing.
- .86 Hoisting and Conveying Machinery.
- .87 Cranes and Elevators.
- .88
- .89

.9 Machine Tools.

- .91 Planing Machines.
- .92 Grinding and Filing.
- .93 Cutting and Sawing.
- .94 Turning and Milling. Lathes.
- .95 Perforating. Drills.
- .96 Punching and Shearing.
- .97 Hammers. Riveting.
- .98 Bending. Straightening. Shaping.
- .99 Fastening. Bolts. Rivets. Screws.

622 Mining Engineering.

May be subdivided like 620 and 620.0.

.1 Exploration and Prospecting.

- .11 Theory. Applied Geology, etc.
- .12 Prospecting. Practical Methods.
Including Divining Rods.
- .13 Mineral Surveys.
- .14 Mine Surveying.
- .15 Magnetic Surveys.
- .16 Theory of Faults. See 551.87 and 553.19.
- .17
- .18
- .19 Mining Prospectuses. See 553.

.2 Practical Mining.

- .21 Excavation.
- .22 Quarrying.
- .23 Drilling and Blasting.
- .24 Deep Boring.
- .25 Shaft Sinking.
- .26 Tunneling and Drifting.
- .27 Stopping.
- .28 Timbering.

.3 Working of Mines. Exploitation.

- .31 Open Workings.
- .32 Hydraulic Mining and Sluicing.
- .33 Coal Mining. See 553.2.
- .34 Metal Mining. See 553.3 and .4.
- .35 Working Thick Deposits.
- .36 Salt Mining. See 553.63.

622.4 Ventilation and Lighting of Mines.

- .41 Theory. Gases met with, etc.
- .42 Natural Ventilation.
- .43 Furnaces. Steam Jets, etc.
- .44 Fans. See 621.62.
- .45 Airways. Stoppings. Regulators.
- .46 Measurement of Ventilation.
- .47 Lighting. Safety Lamps, etc.

.5 Drainage.

- .51 Theory of Infiltration of Water.
- .52 Natural Drainage.
- .53 Cornish Pumps. See 621.64.
- .54 Steam Pumps. See 621.64.
- .55 Hoisting of Water.
- .56 Dams and Watertight Linings.
- .57 Acid Waters.

.6 Extraction. Hoisting and Transportation.

- .61 Handling Mineral in Working Place.
- .62 Underground Roads.
- .63 Mine Cars. Trams, etc.
- .64 Gravity Roads and Planes.
- .65 Trimming and Animal Haulage. See 625.7.
- .66 Mechanical Haulage.
- .67 Hoisting Engines. Drums. Ropes.
- .68 Cages. Skips. Buckets.
- .69 Surface Transportation.
Including Mineral Roads, Wire Rope-ways, Transshipment, Loading and Unloading, etc.

.7 Mechanical Preparation. Ore Dressing.

- .71 Theory. Preliminary Operations.
- .72 Hand Dressing.
- .73 Crushing. Stamping Engine.
- .74 Screening.
- .75 Jigging. Ore Concentrators.
- .76 Slime Treatment.
- .77 Magnetic Separation.
- .78 Coal Washing.
- .79 Dressing Works.

.8 Dangers and Accidents.

- .81 Explosions of Fire-Damp.
- .82 Mine Fires.
- .83 Crushing and Fall of Ground.
- .84 Flooding of Mines.
- .85 Accidents to Miners.
- .86 Rescue and Relief.
- .87
- .88
- .89

623 Military and Naval Engineering.

For Military and Naval Science, Maneuvers, Strategy and Tactics, see 355 to 359.

- .1 Fortifications. Field and Permanent.
- .2 Siege Operations ; Mines, etc.
- .3 Defensive Operations.
- .4 Ordnance and Projectiles.
- .5 Gunnery.
- .6 Military Roads and Bridges.
- .7 Military Signals ; Telegraph, Ballooning, etc.
- .8 Naval Architecture.
- .9 Armored Vessels, Torpedoes, etc.

624 Bridges and Roofs.

- .1 Piers. Foundations, etc.
- .2 Girders. Stresses and Strains.
- .3 Trussed Bridges.
- .4 Tubular Bridges.
- .5 Suspension Bridges.
- .6 Arched Bridges.
- .7 Compound Structures.
- .8 Movable Bridges.
- .9 Roofs.

625 Railroad and Road Engineering. >

See also 624, Bridges ; and 622.2, Tunnels ; 622.26, Excavations, etc.

- .1 Route. Road Bed, Rails, Ties, etc.
- .2 Trains. Brakes, Couplings, Wheels, etc.
- .3 Inclines and Mountain Railways.
- .4 Elevated Roads.
- .5 Cable Roads.
- .6 Horse Cars. Tramways.
- .7 Roads. Highways.
- .8 Pavements.
- .9 Ship Railways.

626 Canal Engineering.

- .1 Route.
- .2 Water Supply.
- .3 Size and Shape.
- .4 Locks.
- .5 Lifts and Inclined Planes.
- .6 Canal Boats. Size, Shape, etc. See 699, Shipbuilding.
- .7 Towing. Power, etc.
- .8 Irrigation Canals and other Irrigation Works.
- .9 Ship Canals.

627 River and Harbor Engineering.

- .1 Rivers. Force of Water. Discharge. Bars.
- .2 Harbors. Breakwaters.
- .3 Docks. Piers. Quays. Shipping Facilities.
- .4 Dikes and Levees. Embankments.
- .5 Other Protection and Reclamation of Land from Tides and Waves. Drainage. For Agricultural Drainage see 631.
- .6 Jetties.
- .7 Dredging.
- .8 Dams.
- .9 Lighthouses.

628 Sanitary Engineering. Water-works.

.01, Theories, Utility; .02, Compendis; .03, Dictionaries; .04, Essays; .05, Periodicals; .06, Societies; .07, Study and Teaching; .08, Polygraphy; .09, History and Description of General Sanitary Works, divided geographically like 930-999.

- .1 Water Supply of Towns. For isolated supply see 628.7.
 - .11, Sources of Water Supply; Lakes, Rivers, Springs, Wells, and Pumping. .12, Pumping vs. Gravitation Systems; Pump-well; Stand-pipe; High Service; Holly System. .13, Storage and Service Reservoirs. .14, Conduits; Aqueducts; Tunnels (see 622)
 - .15, Mains and Service Pipes; Freezing; Iron; Lead. .16, Impurities and their Removal; Filter-basins, etc. .17, Public (Sprinkling, Fire, Flushing), Manufacturing, and Domestic Use and Waste; Meters.
- .2 Sewerage Works.
- .21 Sewerage Systems.
 - 1, Combined System; 2, Separate System; 3, Liernur System; 4, Shone System; 5, Berlier System; 6, Other Systems; 7, The Outfall; 8, Depth and Allignment; 9, Grade and Velocity.

- 623.22 **Shape and Size of Sewers.**
 1, Storm-water Flow; 2, Ordinary Flow; 3, Circular Section; 4, Ordinary Egg-Shape;
 5, Other Egg-Shapes; 6, Other Forms; 7, ; 8, Formulas for Size.
- .23 **Ventilation of Sewers.**
 1, Openings in Streets; 2, Lamp Posts; 3, Flues in Houses; 4, Pipes on Houses;
 5, House Drains; 6, Chimneys and Furnaces; 7, Charcoal and Chemicals to
 deodorize sewerage gas; 8, Special Mechanism; 9, Special Construction.
- .24 **Design and Construction of Sewers.**
- .25 **Sewer Appurtenances.**
 1, Junctions; 2, House Connections; 3, Manholes and Lampholes; 4, Flushing Shafts
 and Fixtures; 5, Catch Basins and Inlets; 6, Traps and Ventilators; 7, Valves and
 Penstocks; 8, Overflows and Regulators; 9, Miscellaneous.
- .26 **River Crossings.**
- .27 **Intercepting and Outfall Sewers.**
- .28 **Reservoirs and Tank Sewers.**
- .29 **Pumping Stations.**
- .3 **Disposal of Sewage.**
- .31 **Physical Properties of Sewage.**
- .32 **Deodorization and Disinfection of solids and liquids.** See 629.237.
- .33 **Subsidence.**
- .34 **Precipitation.**
 1, Precipitation Tanks; 2, Mixing Machinery; 3, Filter Presses; 4, Precipitation by
 Salts of Alumina; 5, By Lim.; 6, By Salts of Iron; 7, By Other Methods;
 8, Disposal of Sludge; 9, Miscellaneous.
- .35 **Filtration.**
- .36 **Irrigation.**
 1, Broad Irrigation; 2, Ridge and Furrow Irrigation; 3, Flat Bed Irrigation; 4, Sub-
 Surface Irrigation; 5, Intermittent Downward Filtration; 6, Carriers and Appur-
 tenances; 7, Drains and Drainage of Sewage Farms; 8, Filtration Areas; 9,
 Miscellaneous.
- .37 **Sewage Farming. Required modifications of ordinary methods.**
- .38 **Sewage Manures.**
- .39 **Discharge into Sea, etc.**
- .4 **Scavenging of Towns.**
- .41 **Middens and Privies.**
- .42 **Pail Systems.**
- .43 **Earth Closet Systems.**
- .44 **Domestic Ashes and Garbage.**
- .45 **Public Urinals and Latrines.**
- .46 **Street Cleaning.**
- .5 **Industrial Sanitation.**
- .51 **Factories and Trades.**
 1, Prevention of Dust and Fumes; 2, Protection of Throat and Eyes; 3, Protection
 against Infection; 9, Special Trades.
- .52 **Effluvium Nuisances.**
 1, Situation of Works; 2, Use of High Chimneys; 3, Condensation in Water; 4, Com-
 bustion in Furnaces; 9, Special Trades.
- .53 **Smoke Nuisance.**
 8, From Steam Generators; 9, From Special Industries.
- .54 **Disposal of Solid and Liquid Wastes.**
 1, Discharge into Streams; 2, Absorbing Wells and Burial; 3, Clarification by Sub-
 sidence; 4, Chemical Treatment; 5, Filtration; 6, Purification by the Soil; 9,
 Special Methods and Special Trades.
- .6 **House Drainage.**
- .7 **Rural Water Supply. Villages and Country houses.**
- .8 **Ventilation and Heating.** See 697, 644, 629.23, 622.4.
- .9 **Lighting.** See 621.32, 537.83, 644, 665.

629 Other Branches of Engineering.

630 Agriculture.

To be subdivided more closely. See note under 610.

- 631 Soil. Fertilizers. Drainage.
- 632 Pests. Hindrances. Blights. Insects.
- 633 Grains. Grasses. Fibres. Tea, etc.
- 634 Fruits. Orchards. Vineyards.
- 635 Kitchen Garden. See 716, for Flower Gardens.
- 636 Domestic Animals.
 - .1 Horses.
 - .2 Cattle.
 - .3 Sheep, Goats.
 - .4 Swine.
 - .5 Poultry.
 - .6 Birds.
 - .7 Dogs.
 - .8 Cats.
 - .9 Other.
- 637 Dairy. Milk. Butter. Cheese.
- 638 Bees. Silkworms.
- 639 Fishing. Trapping.

640 Domestic Economy.

- 641 Cookery. Gastronomy.
- 642 Confectionery. Ices.
- 643 Food. Dining. Carving.
- 644 Fuel. Lights. See also 697, 665, 621.32.
- 645 Furniture. Carpets. Upholstery.
- 646 Clothing. Toilet. Cosmetics.
- 647 Servants. Training. Duties. Wages.
- 648 Laundry.
- 649 Nursery. Children. Sick-room.

650 Communication. Commerce.

- 651 Writing. Cipher. Typewriters.
- 652 Penmanship. Materials. Methods.
- 653 Short Hand. Abbreviations.
- 654 Telegraphy. Cables. Signals.
- 655 Printing. Type. Stereos. Publishing.
- 656 Transportation. Railroading, etc.
- 657 Book-keeping. Accounts.
- 658 Business Manuals. Methods. Tables.
- 659 Advertising and other Topics.

660 Chemical Technology.

- 661 Chemicals; Acids, Alkalies, Salts, Paints, etc.
- 662 Pyrotechnics. Explosives. Matches, etc.
- 663 Beverages; Wines, Liquors, Ales, Mixtures, etc.
- 664 Foods; Sugar, Starch, Preservation of Meat, etc.
- 665 Lights; Gas, Oil, Candles, Lamps, etc.
- 666 Ceramics. Glass, Clay, Cement, Bricks, etc.
- 667 Bleaching. Dyeing. Inks, etc.
- 668 Other Organic Chemical Industries. Soap, etc.

669 Metallurgy and Assaying.

- .1 Iron and Steel.
- .2 Gold and Silver.
- .3 Copper.
- .4 Lead.
- .5 Zinc.
- .6 Tin.
- .7 Mercury and other Metals.
- .8 Fuels and Furnaces.
- .9 Assaying.

670 Manufactures.

- 671 Articles made of Metals.
- 672 Of Iron and Steel; Stoves, Cutlery, etc.
- 673 Of Brass and Bronze; Bells, etc.
- 674 Lumber and Articles made of Wood.
- 675 Leather " " " " Leather.
- 676 Paper " " " " Paper.
- 677 Cotton, Wool, Silk, Linen, etc.
- 678 Rubber and Articles made of Rubber.
- 679 Celluloid and other.

680 Mechanic Trades.

- 681 Watch and Instrument-making.
- 682 Blacksmithing. Horseshoeing.
- 683 Lock and Gun-making.
- 684 Carriage and Cabinet-making.
- 685 Saddlery and Shoe-making. Trunks.
- 686 Bookbinding.
- 687 Clothes-making. Hats.
- 688
- 689 Other Trades.

690 Building.

- 691 Materials. Timber, Stone, etc. See 620.1.
- 692 Plans and Specifications.
- 693 Masonry. Plastering, etc.
- 694 Carpentry. Stair-building.
- 695 Slating and Tiling.
- 696 Plumbing. Gas and Steam-fitting.
- 697 Warming and Ventilation.
- 698 Painting, Glazing and Paper-hanging.
- 699 Car and Ship-building. See 643.2.

Fine Arts.

700 Fine Arts.

- 701 Philosophy. Theories. Utility. Æsthetics.
- 702 Compendis. Outlines.
- 703 Dictionaries. Cyclopedias.
- 704 Essays. Lectures. Addresses.
- 705 Periodicals. Magazines. Reviews.
- 706 Societies. Transactions. Reports, etc.
- 707 Education. Study and Teaching of Art.
- 708 Art Galleries and Museums.
 - .1 American. Corcoran, Metropolitan, Boston.
 - .2 English. National, Hampton Court, Windsor.
 - .3 German. Dresden, Munich, Berlin, Vienna.
 - .4 French. Louvre, Luxembourg.
 - .5 Italian. Vatican, Sistine, Pitti, Medici, Borbonico.
 - .6 Spanish. Madrid, Seville.
 - .7 Russian. St. Petersburg, Hermitage.
 - .8 Scandinavian. Copenhagen.
 - .9 Other Countries.
- 709 History of Art in General.

710 Landscape Gardening.

- 711 Public Parks.
- 712 Private Grounds. Lawns.
- 713 Walks. Drives.
- 714 Water. Fountains. Lakes.
- 715 Trees. Hedges. Shrubs.

- 716 Plants. Flowers. Conservatories.
- 717 Arbors. Seats. Outlooks.
- 718 Monuments. Mausoleums.
- 719 Cemeteries. See also 393.

720 Architecture.

To be further subdivided. See note under 610.

- 721 Architectural Construction.
- 722 Ancient and Oriental.
- 723 Medieval. Gothic.
- 724 Modern.
- 725 Public Buildings.
- 726 Church. Cathedral.
- 727 College. School.
- 728 Domestic. Rural. Villas.
- 729 Of Special Countries. Divided like 930-999.

730 Sculpture.

- 731 Materials and Methods.
- 732 Ancient.
 - 733 Greek and Roman.
- 734 Medieval.
- 735 Modern.
- 736 Carving. Seals. Dies. Gems.
- 737 Numismatics. Coins. Medals.
- 738 Pottery. Porcelain.
- 739 Bronzes. Medals. Bric-a-brac.

740 **Drawing. Decoration.**

- 741 Free-hand. Crayon. Sketching from Nature.
- 742 Perspective. See also 515.6.
- 743 Art Anatomy. Life School.
- 744 Mathematical and Scientific Drawing. See 515.
- 745 Ornamental Design. Woven Fabrics. Carpets. Wall Paper, etc.
- 746 Art Needlework.
- 747 Interior Decoration. Distemper. Fresco. Polychrome.
- 748 Stained and Iridescent Glass.
- 749 Artistic Furniture. Fireplaces. Frames, etc.

750 **Painting.**

- 751 Materials and Methods.
- 752 Color.
- 753 Epic. Mythic. Idealistic. See 759.3, German School.
- 754 Genre. Still Life. See 759.4, French; and 759.9, Belgian.
- 755 Religious. Ecclesiastic. See 759.5, Italian; and 759.6, Spanish.
- 756 Historical. Battle Scenes.
- 757 Portrait.
- 758 Landscape and Marine. Animals. Flowers.
- 759 Various Schools of Painting.

1, American; 2, English; 3, German; 4, French; 5, Italian; 6, Spanish; 7, Slavic; 8, Scandinavian; 9, Other Schools.

760 Engraving.

- 761 Wood.
- 762 Copper and Steel.
- 763 Lithography.
- 764 Chromolithography.
- 765 Line and Stipple.
- 766 Mezzotint and Aquatint.
- 767 Etching. Dry Print.
- 768 Bank Note and Machine.
- 769 Collections of Engravings.

770 Photography.

- 771 Materials. Photographic Chemistry.
- 772 Silver Processes. Daguerreotype. Talbotype. Collodion Process. Ambrotype, etc. Dry-Plate Processes.
- 773 Gelatine and Pigment Processes. Woodburytype. Carbon Process. Lambertype. Autotype, etc.
- 774 Gelatine and Printer's Ink Processes. Albertype. Heliotype. Artotype, etc.
- 775 Photo-lithography, etc.
- 776 Photo-zincography, etc.
- 777 Photo-engraving and Photo-electrotyping.
- 778 Special Applications. See 522.63, Astronomy. See 578, Microscopy.
- 779 Collections of Photographs.

780 Music.

.1, Philosophy and Aesthetics of Music; .2, Compendis; .3, Dictionaries; .4, Essays; .5, Periodicals; .6, Societies; .7, Education, Conservatories; .8, Polygraphy, Libraries; .9, History. All heads include both the music itself and everything about it: Score, Libretto, History, Criticism, etc.

781 Theory of Music.

- .1 Mathematical and Physical.
- .2 Elementary and General.
- .3 Harmony. Thoroughbass.
- .4 Counterpoint.
- .5 Musical Form.
- .6 Composition and Instrumentation.
- .7 Oriental Theories and Forms. Russian Music.
- .8 Ancient Grecian Theories, Modes, and Forms.
- .9

782 Dramatic Music.

- .1 Grand Opera.
- .2 Epic. Wagnerian.
- .3 Other German Grand Opera.
- .4 French Grand Opera.
- .5 Italian Grand Opera.
- .6 Comic and Satirical.
- .7 Opera Bouffe.
- .8 Operettas and Cantatas.
- .9 Pantomimes. Masks, etc.

783 Sacred Music. See 245, Hymnology, Sacred Poetry | 786.8, Organ.

- .1 Organ and Orchestral. Accompaniment.
- .2 Cathedral Services. Masses. Vespers, etc.
 - .21, Mass. Communion Services; .22, Common of the Mass; Kyrie, Gloria in Excelsis, Credo, Benedictus, Agnus Dei; .23, Proper of the Season; Offertory, Sequence. Gradual, Tract; .24, Choral Service; Antiphonal, Responsive; .25, Plain Song; .26, Litanies; .27, Lenten and Penitential; Good Friday, "Reproaches"; .28, Festival; Christmas, Easter, etc.; .29, Processional. Recessional.
- .3 Oratorio. Passion Music.
- .4 Anthem. Motet. Sacred Cantata. Polyphonic School, Palestrina. 16th Century.
- .5 Chant. Gregorian. Anglican.
- .6 Chorale. Tune. Carol.
- .7 Evangelistic. Mission. Revival. Sunday School.
- .8 Choir. Men and Boys. Quartet. Chorus.
- .9 Congregational Singing. Psalmody. Hymnody.

784 Vocal Music.

- .1 Glee. Madrigal. Round. Catch.
- .2 Aria. Cavatina. Recitative. e. g. in Oratorio, Mass, Opera.
- .3 Ballad and Song. Romantic. Idyllic. Sentimental. c. g. Modern German.
- .4 Popular Ballads. Volkslied. e. g. Irish, Scotch, etc.
- .5 Festival. e. g. Sængerbund. Eisteddfod. Competitive.
- .6 College, Society Songs, and Choruses.
- .7 Negro Minstrelsy. Plantation Songs.
- .8 Collected Songs.
.81, Solos; .82, Duets; .83, Trios; .84, Quartets; .85, Other Part Songs; 86, Choruses; .87, Collections for Male Voices; .88, Collections for Female Voices; .89, Other Special Collections.
- .9 Vocal Hygiene, Culture, Development, and Methods. Tonic-Sol-Fa.

785 Orchestral Music. For Dramatic Orchestral Music, see 782.

- .1 Symphony. Three or more movements; e. g. Adagio, Andante, Allegro, Allegretto, Scherzo, Finale, etc.
- .2 Dramatic, Illustrative, Descriptive, Imitative.
e. g. Mendelssohn's Mid-Summer Night's Dream.
- .3 Romantic. Idyllic.
- .4 Program Music.
- .5 Overture. e. g. Beethoven's "Leonores."
- .6 Concerto. Orchestral with Solo Instrument.
- .7 Chamber Music.
- .8 Suite.
- .9 Arrangements. Transcriptions. Pot Pourris.

786 Piano and Organ.

- .1 Piano. History.
- .2 Manufacture.
- .3 Instruction.
- .4 Piano Music. General Collections. For Piano Concerto, see 785.6.
- .41 Sonata. Sonatina. Rondo.
- .42 Fantasia. Arabesque.
- .43 Nocturne. Meditation. Songs without Words. Romantic. Descriptive.
- .44 March and March-form. Polonaise. Polka. Mazourka.
- .45 Dance-form. National. Classical. Idealized.
- .46 Modern Dance Music. Society. Festive.
- .47 Etudes. Artistic. For Etudes for Instruction, see 786.3.
- .48 Variations. Transcriptions.
- .49 Arrangements. Four Hands and more. e. g. Orchestral Music arranged for Piano.

786.5 Organ. History.

.6 Building.

.7 Instruction.

.8 Organ Music. See 783, Sacred Music.

.81 Sonata. .82 Fugue. .83 Preludes. .84 Interludes. .85 Postludes. .86
Offertories. .87 Voluntaries. Improvisation. .88 Organ and Piano.
.89 Organ, Piano, and Orchestra.

.9 Cabinet Organ. Melodeon.

787 Stringed Instruments.

Including with each, History, Manufacture, Instruction, Music, etc. Music for two instruments
is put with the one most prominent in the composition.

Bowed.

.1 Violin.

.2 Viola.

.3 Violoncello.

.4 Double Bass. Contra Bass.

Plectral.

.5 Harp.

.6 Guitar. Lute. Mandolin, etc.

.7 Banjo.

.8 Zither.

.9 Other Stringed Instruments. Harpsichord.

788 Wind Instruments.

Including with each, History, Manufacture, Instruction, Music, etc.

Brass.

.1 Trumpet. Slide and Valve.

.2 Trombone.

.3 Cornet.

.4 Horns and other Brass Wind Instruments.

.41 French Horn.

.42 Saxhorn.

.43 Saxophone.

.44 Euphonium.

.45 Ophicleide.

.46 Key Bugle.

.47 Valve Bugle.

.48 Bass. Tuba and Contrabass Tuba. Serpent.

.49 Other.

Wood. Flute Group.

.5 Flute. Waldflute. Piccolo. Fife. Flageolet.

Wood. Reed Group.

.6 Clarinet. Bass Clarinet. Bassethorn.

.7 Oboe. D'amore. Da Caccia. Cor Anglais.

.8 Bassoon. Double Bassoon. Bombardon.

.9 Other Reed Wind Instruments. Bagpipe.

789 Percussion and Mechanical Instruments.

Percussion.

- .1 Drum.
- .2 Cymbals.
- .3 Triangle.
- .4 Tambourine. Castanets. Bones.
- .5 Bells. Chimes. Carillon.
- .6 Other Percussion Instruments. Xylophone.

Mechanical.

- .7 Orchestrion.
- .8 Music Box.
- .9 Other Mechanical Instruments.

790 Amusements.

791 Public Entertainment.

Concert, Panorama, Circus, Menagerie, Summer Resort, Garden, Rink, Museum, Fair, Festival.

792 Theater. Opera. See also 782, Pantomime.

793 In-door Amusements.

Private Theatricals, Tableaux, Charades, Dancing.

794 Games of Skill.

Chess, Checkers, Billiards, Bowling, Bagatelle.

795 Games of Chance.

Cards, Dice, Backgammon, Dominoes.

796 Out-door Sports.

Children's Sports, Athletic Sports, Coasting, Skating, Cycling, Quoits, Archery, Croquet, Lawn Tennis.

797 Boating and Ball.

Rowing, Yachting, Base-ball, Foot-ball, Cricket, Polo.

798 Horsemanship and Racing.

799 Fishing, Hunting, Target Shooting.

Literature.

800 Literature. General Works.

- 801 Philosophy. Theories. Literary Æsthetics.
- 802 Compends. Outlines.
- 803 Dictionaries. Cyclopedias.
- 804 Essays. Lectures. Addresses.
- 805 Periodicals. Magazines. Reviews.
- 806 Societies. Transactions. Reports, etc.
- 807 Study and Teaching of Literature.
- 808 Collections. Treatises. Rhetoric.

Divided .1, Poetry; .2, Drama; .3, Fiction; .4, Essays; .5, Oratory; see also 784.9, Vocal Culture; .6, Letters, Epistolography; .7, Satire, Humor; .8, Collections too general to go with any one language, e. g. a book of Quotations from many languages. These heads, and the same under 809, include only works about Poetry, etc., regardless of language.

809 History of Literature in general.

Divided like 808. .1, Poetry; .2, Drama; .3, Fiction, etc.

810 American Literature.

.1, Philosophy; .2, Compends; .3, Dictionaries; .4, Essays on American Literature; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Collections; .9, History of American Literature.

811 American Poetry.

.02, Dramatic; .03, Romantic and Epic; .04, Lyric, Ballads; .05, Didactic; .06, Descriptive; .07, Satirical and Humorous; .09, History of American Poetry.

.1 Colonial, 1607-1776.

- .11 Sandys, George. 1577-1644.
- .12 Bradstreet, Anne. 1612-1672.
- .13 Wigglesworth, Michael. 1631-1705.
- .14 Green, Joseph. 1706-1780.
- .15 Livingston, William. 1723-1790.
- .16 Ferguson, Elizabeth. 1739-1801.

.2 Post-Revolutionary, 1776-1830.

- .21 Trumbull, John. 1750-1831.
- .22 Dwight, Timothy. 1752-1817.
- .23 Barlow, Joel. 1755-1812.
- .24 Freneau, Philip. 1752-1832.
- .25 Alsop, Richard. 1761-1841.
- .26 Pierpont, John. 1785-1866.
- .27 Dana, Richard Henry. 1787-1879.
- .28 Sprague, Charles. 1791-1875.
- .29 Minor Poets.

811.3 Middle 19th Century, 1830-1861.

.31	Halleck, Fitz-Greene.	1790-1867.
.32	Poe, Edgar Allan.	1811-1849.
.33	Bryant, William Cullen.	1794-1878.
.34	Longfellow, Henry Wadsworth.	1807-1882.
.35	Read, Thomas Buchanan.	1822-1872.
.36	Whittier, John Greenleaf.	1807-
.37	Lowell, James Russell.	1819-
.38	Whitman, Walt.	1819-

.4 Later 19th Century, 1861-

.41	Stoddard, Richard Henry.	1825-
.42	Hayne, Paul Hamilton.	1831-
.43	Stedman, Edmund Clarence.	1833-
.44	Winter, William.	1836-
.45	Miller, Cincinnatus Hiner, (Joaquin.)	1841-
.46		
.47		
.48		
.49		

812 American Drama.

.1 Colonial, 1607-1776.

.11	Warren, Mercy.	1728-1814.
.12	Godfrey, Thomas.	1736-1763.

.2 Post-Revolutionary, 1776-1830.

.21	Tyler, Royall.	1757-1826.
.22	Dunlap, William.	1766-1839.
.23	Hillhouse, James Abraham.	1789-1841.
.24	Ingersoll, Charles Jared.	1782-1862.

.3 Middle 19th Century, 1830-1861.

.31	Ritchie, Anna Cora Mowatt.	1818-1870.
.32	Matthews, Cornelius.	1817-
.33	Boker, George Henry.	1823-

.4 Later 19th Century, 1861-

.41

813 American Fiction.

.1 Colonial, 1607-1776.

.2 Post-Revolutionary, 1776-1830.

.21	Brackenridge, Hugh Henry.	1748-1816.
.22	Rowson, Susanna.	1762-1824.
.23	Brown, Charles Brockden.	1771-1810.
.24	Cooper, James Fenimore.	1789-1851.
.25	Ware, William.	1797-1852.
.26	Neal, John.	1793-
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813.3 Middle 19th Century, 1830-1861.

.31	Thompson, Daniel Pierce.	1795-1868.
.32	Kennedy, John Pendleton.	1795-1870.
.33	Hawthorne, Nathaniel.	1804-1864.
.34	Judd, Sylvester.	1813-1853.
.35	Simms, William Gilmore.	1806-1870.
.36	Melville, Herman.	1819-
.37	Stowe, Harriet Beecher.	1812-

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.4 Later 19th Century, 1861-

.41	Alcott, Louisa May.	1833-
.42	Eggleston, Edward.	1837-
.43	Howells, William Dean.	1837-
.44	Aldrich, Thomas Bailey.	1836-
.45	Harte, Francis Bret.	1839-
.46	James, Henry.	1843-
.47	Hawthorne, Julian.	1846-
.48	Burnett, Francis Hodgson.	1849-
.49	Minor Novelists.	

814 American Essays.

.1 Colonial, 1607-1776.

.2 Post-Revolutionary, 1776-1830.

.21	Rush, Benjamin.	1745-1813.
.22	Webster, Noah.	1758-1843.
.23	Channing, William Ellery.	1780-1842.

.3 Middle 19th Century, 1830-1861.

.31	Ossoli, Margaret Fuller.	1810-1850.
.32	Giles, Henry.	1809-1882.
.33	Tuckerman, Henry Theodore.	1813-1871.
.34	Holland, Josiah Gilbert.	1819-1882.
.35	Whipple, Edwin Percy.	1819-

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.4 Later 19th Century, 1861-

.41	Burroughs, John.	
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815 American Oratory.

.1 Colonial, 1607-1776.

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.2 Post-Revolutionary, 1776-1830.

.21	Hamilton, Alexander.	1757-1804.
.22	Ames, Fisher.	1758-1808.
.23	Wirt, William.	1772-1834.
.24	Randolph, John.	1773-1833.
.25	Clay, Henry.	1777-1852.
.26	Calhoun, John Caldwell.	1782-1850.
.27	Webster, Daniel.	1782-1852.

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815.3 Middle 19th Century, 1830-1861.

.31	Everett, Edward.	1794-1865.
.32	Choate, Rufus.	1799-1859.
.33	Sumner, Charles.	1811-1874.
.34	Phillips, Wendell.	1811-1884.
.35	Chapin, Edwin Hubbell.	1814-1880.
.36	Beecher, Henry Ward.	1813-

.4 Later 19th Century, 1861-

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816 American Letters. Subdivided by periods, like 811.

817 American Satire and Humor.

.1 Colonial, 1607-1776.

.11	Ward, Nathaniel.	1578-1653.
.12	Alsop, George.	1638-
.13	Byles, Mather.	1706-1788.
.14	Hopkinson, Francis.	1738-1791.
.15	Peters, Samuel Andrew.	1735-1826.

.2 Post-Revolutionary, 1776-1830.

.21	Story, Isaac.	1774-1803.
.22	Fessenden, Thomas Green.	1771-1837.
.23	Paulding, James Kirke.	1779-1860.
.24	Irving, Washington.	1783-1859.
.25	Verplanck, Gulian Crommelin.	1786-1870.

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.3 Middle 19th Century, 1830-1861.

.31	Neal, Joseph Clay.	1807-1847.
.32	Holmes, Oliver Wendell.	1809-
.33	Shelton, Frederick William.	1814-
.34	Shillaber, B. P. (Mrs. Partington.)	1814-
.35	Saxe, John Godfrey.	1816-
.36	Cozzens, Frederick Swartout.	1818-1869.
.37	Browne, C. F., (Artemas Ward.)	1834-1867.

.38
.39
Minor Satirists and Humorists.

.4 Later 19th Century, 1861-

.41	Warner, Charles Dudley.	1829-
.42	Locke, David Ross, (Nasby.)	1833-
.43	Burdette, Robert J.	1831-
.44	Clemens, S. L., (Mark Twain.)	1835-
.45	Carleton, William.	1845-

.46
.47

818 American Miscellany.

.3 Middle 19th Century, 1830-1861.

.31	Thoreau, Henry David.	1817-1862.
.32	Mitchell, Donald Grant.	1822-

820 English Literature.

820.1, Philosophy; .2, Compendis; .3, Dictionaries; .4, Essays on English Literature; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Collections; .9, History.

821 English Poetry.

.02, Dramatic; .03, Romantic and Epic; .04, Lyric, Ballads; .05, Didactic; .06, Descriptive; .07, Satirical and Humorous; .09, History of English Poetry.

.1 Early English, 1066-1400.

.11	Layamon,	1150-1207.
.12	Ormin,	1187-1237.
.13	Robert of Gloucester,	1245-1307.
.14	Minot, Lawrence	1313-1352.
.15	Langland, William	1327-1368.
.16	Barbour, John	1320-1392.
.17	Chaucer, Geoffrey	1328-1400.
.18	Gower, John	1325-1408.
.19	Minor Writers.	

.2 Pre-Elizabethan, 1400-1558.

.21	Lydgate, John	1369-1461.
.22	Skelton, John	1460-1529.
.23	Dunbar, William	1460-1530.
.24	Douglas, Gavin	1474-1522.
.25	Hawes, Stephen	1483-1509.
.26	Lyndsay, Sir David	1490-1556.
.27	Wyatt, Sir Thomas	1503-1542.
.28	Surrey, Henry Howard, earl of	1517-1547.
.29	Minor Writers.	

.3 Elizabethan, 1558-1625.

.31	Spenser, Edmund	1553-1599.
.32	Sidney, Sir Philip	1554-1586.
.33	Daniel, Samuel	1562-1619.
.34	Drayton, Michael	1563-1627.
.35	Davies, John	1570-1626.
.36	Drummond, William	1585-1649.
.37	Fletcher, Giles and Phineas	1585-1650.
.38	Herbert, George	1593-1633.
.39	Minor Writers.	

.4 Post-Elizabethan, 1625-1702.

.41	Suckling, Sir John	1609-1641.
.42	Crashaw, Richard	1616-1650.
.43	Herrick, Robert	1591-1674.
.44	Waller, Edmund	1605-1687.
.45	Lovelace, Richard	1618-1658.
.46	Cowley, Abraham	1618-1667.
.47	Milton, John	1608-1674.
.48	Dryden, John	1631-1700.
.49	Minor Writers.	

821.5 Queen Anne, Early 18th Century, 1702-1745.

.51	Prior, Matthew	1664-1721.
.52	Parnell, Thomas	1679-1717.
.53	Pope, Alexander	1688-1744.
.54	Ramsay, Allan	1685-1758.
.55	Young, Edward	1684-1765.
.56	Thomson, James	1700-1748.
.57	Collins, William	1720-1756.
.58	Shenstone, William	1714-1764.
.59	Minor Writers.	

.6 Later 18th Century, Pre-Revolutionary, 1745-1800.

.61	Gray, Thomas	1716-1771.
.62	Akenside, Mark	1721-1769.
.63	Chatterton, Thomas	1752-1770.
.64	Goldsmith, Oliver	1728-1774.
.65	Cowper, William	1731-1800.
.66	Macpherson, James	1738-1796.
.67	Burns, Robert	1759-1796.
.68	White, Henry Kirke	1785-1806.
.69	Minor Writers.	

.7 Early 19th Century, Post-Revolutionary, 1800-1837.

.71	Wordsworth, William	1770-1850.
.72	Coleridge, Samuel Taylor	1772-1834.
.73	Southey, Robert	1774-1843.
.74	Scott, Sir Walter	1771-1832.
.75	Moore, Thomas	1779-1852.
.76	Byron, Geo. Gordon Noel	1788-1824.
.77	Shelley, Percy Bysshe	1792-1822.
.78	Keats, John	1796-1821.
.79	Minor Writers.	

.8 Victorian Period, 1837.

.81	Tennyson, Alfred	1809-
.82	Browning, Elizabeth Barrett	1809-1861.
.83	Browning, Robert	1812-
.84	Rossetti, Dante Gabriel	1828-
.85	Morris, William	1834-
.86	Swinburne, Algernon Charles	1843-
.87		
.88		
.89	Minor Writers.	

822 English Drama.

- .1 **Early English, 1066-1400.**
- .11 Chester Plays.
- .12 Coventry Plays.
- .13 Townley Plays.
- .2 **Pre-Elizabethan, 1400-1558.**
- .21 Heywood, John 1506-1565.
- .22 Udall, Nicholas 1505-1564.
- .23 Bale, John 1495-1563.
- .3 **Elizabethan, 1558-1625.**
- .31 Greene, Robert 1561-1592.
- .32 Marlowe, Christopher 1564-1593.
- .33 Shakspeare, William 1564-1615.
- .34 Jonson, Ben 1574-1637.
- .35 **Beaumont, Francis and
Fletcher, John** 1576-1625.
- .36 Webster, John 1582-1652.
- .37 Massinger, Philip 1584-1640.
- .38 Ford, John 1586-1639.
- .39 Minor Writers.
- .4 **Post-Elizabethan, 1625-1702.**
- .41 Davenant, Sir William 1605-1668.
- .42 Etherege, Sir George 1637-1688.
- .43 Crowne, John 1644-1699.
- .44 Wycherly, William 1640-1715.
- .45 Otway, Thomas 1651-1684.
- .46 Congreve, William 1670-1729.
- .47 Vanbrugh, Sir John 1666-1726.
- .48 Farquhar, George 1678-1707.
- .49 Minor Writers.
- .5 **Queen Anne, Early 18th Century, 1702-1745.**
- .51 Dennis, John 1657-1734.
- .52 Southerne, Thomas 1660-1746.
- .53 Centlivre, Mrs. Susanna (Freeman) 1668-1723.
- .54 Cibber, Colley 1671-1757.
- .55 Rowe, Nicholas 1674-1718.
- .56 Gay, John 1688-1732.
- .57 Lillo, George 1693-1739.
- .58
- .59 Minor Writers.
- .6 **Later 18th Century, 1745-1800.**
- .61 Garrick, David 1716-1779.
- .62 Foote, Samuel 1721-1777.
- .63 Colman, George, the elder 1733-1794.
- .64 Home, John 1724-1808.
- .65 Cumberland, Richard 1732-1811.
- .66 Sheridan, Richard Brinsley 1751-1816.
- .67 Inchbald, Mrs. Elizabeth (Simpson) 1756-1821.
- .68
- .69 Minor Writers.
- .7 **Early 19th Century, 1800-1837.**
- .71 Baillie, Joanna 1762-1851.
- .72 Knowles, James Sheridan 1784-1862.
- .8 **Victorian Period, 1837-**

823 English Fiction.

- .1 Early English, 1066-1400.
- .2 Pre-Elizabethan, (More's Utopia,) 1400-1558.
- .3 Elizabethan, (Lyly's Euphues,) 1558-1625.
- .4 Post-Elizabethan, 1625-1702.
 - .41 Harrington, James 1611-1677.
 - .42 Bunyan, John 1628-1688.
 - .43 Mackenzie, George 1636-1691.
 - .44 Behn, Aphra 1642-1689.
- .5 Queen Anne, 1702-1745.
 - .51 DeFoe, Daniel 1662-1731.
 - .52 Fielding, Henry 1707-1754.
- .6 Later 18th Century, 1745-1800.
 - .61 Richardson, Samuel 1689-1761.
 - .62 Sterne, Laurence 1713-1768.
 - .63 Smollett, Tobias George 1721-1771.
 - .64 Goldsmith, Oliver 1728-1774.
 - .65 Mackenzie, Henry 1745-1834.
 - .66 Arblay, Frances (Burney), madame d' 1752-1840.
 - .67
 - .68
 - .69 Minor Writers.
- .7 Early 19th Century, 1800-1837.
 - .71 Lewis, Matthew Gregory 1775-1818.
 - .72 Edgeworth, Maria 1765-1849.
 - .73 Scott, Sir Walter 1771-1832.
 - .74 Austen, Jane 1775-1817.
 - .75 Porter, Jane 1776-1850.
 - .76 Peacock, Thomas Love 1785-1867.
 - .77 Galt, John 1779-1839.
 - .78 Marryat, Frederick 1786-1857.
 - .79 Minor Writers.
- .8 Victorian Period, 1837-
 - .81 Brontë, Charlotte 1816-1855.
 - .82 Thackeray, William Makepeace 1811-1863.
 - .83 Dickens, Charles 1812-1870.
 - .84 Lytton, Edw. Geo. Bulwer, 1st baron 1804-1873.
 - .85 Kingsley, Charles 1819-1875.
 - .86 Beaconsfield, Benjamin Disraeli, 1st earl of 1805-1881.
 - .87 Trollope, Anthony 1815-1882.
 - .88 Eliot, George 1820-1880.
 - .89 Minor Writers.

824 English Essays.

.3 Elizabethan, (Bacon), 1558-1625.

.4 Post-Elizabethan, (Locke), 1625-1702.

.5 Queen Anne, 1702-1745.

.51 Shaftsbury, Anthony Ashley Cooper, 3d earl of :

.52 Addison, Joseph 1672-1719.

.53 Steele, Sir Richard 1672-1729.

.54 Budgell, Eustace 1685-1736.

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.6 Later 18th Century, 1745-1800.

.61 Moore, Edward 1712-1757.

.62 Kames, Henry Home, lord 1696-1782.

.63 Johnson, Samuel 1709-1784.

.64 Hume, David 1711-1776.

.65 Hawkesworth, John 1715-1773.

.66 Goldsmith, Oliver 1728-1774.

.67 Gibbon, Edward 1737-1794.

.68

.69 Minor Writers.

.7 Early 19th Century.

.71 Mackintosh, Sir James 1766-1832.

.72 Smith, Sidney 1772-1845.

.73 Jeffrey, Francis, lord 1773-1850.

.74 Brougham, Henry, 1st baron 1779-1868.

.75 Lamb, Charles 1775-1834.

.76 Hazlitt, William 1778-1813.

.77 Hunt, Leigh 1784-1859.

.78

.79 Minor Writers.

.8 Victorian Period.

.81 De Quincey, Thomas 1785-1859.

.82 Carlyle, Thomas 1795-1881.

.83 Macaulay, Thomas Babington, 1st baron 1800-1859.

.84 Helps, Sir Arthur 1817-

.85 Arnold, Matthew 1822-

.86 Ruskin, John 1819-

.87

.88

.89 Minor Writers.

825 English Oratory.

- .6 Later 18th Century, 1745-1800.**
.61 Chatham, William Pitt, 1st earl of 1708-1778.
.62 **Burke, Edmund** 1729-1797.
.63 Fox, Charles James 1750-1806.
.64 **Sheridan, Richard Brinsley** 1751-1816.
.65 Grattan, Henry 1750-1820.

826 English Letters.

- .2 Pre-Elizabethan, (Paston Letters,) 1400-1558.**
- .5 Queen Anne, 1702-1745.**
.51 Montagu, Lady Mary (Pierrepont) Wortley 1690-1762.
.52 Chesterfield, Philip Dormer Stanhope, 4th earl of 1694-1773.
.53
- .6 Later 18th Century, 1745-1800.**
.61 Orford, Horace Walpole, 4th earl of 1717-1785.
.62 Montagu, Mrs. Elizabeth (Robinson) 1720-1800.

827 English Satire and Humor.

- .2 Pre-Elizabethan, 1400-1558.**
.21 Barclay, Alexander 1488-1551.
- .3 Elizabethan, 1558-1625.**
.31 Gascoigne, George 1537-1577.
.32 Harrington, Sir John 1559-1612.
.33 Hall, Joseph 1574-1627.
.34 Marston, John 1575-1534.
.35 Donne, John 1573-1631.
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- .4 Post-Elizabethan, 1588-1667.**
.41 Wither, George 1588-1667.
.42 **Butler, Samuel** 1612-1680
.43 Marvell, Andrew 1620-1678.
.44 D'Urfey, Thomas 1625-1723.
.45 Oldham, John 1653-1683.
.46 Brown, Thomas 1663-1704.
.47 King, William 1663-1712.
.48 Garth, Sir Samuel 1665-1719.
.49 **Minor Writers.**

827.5 Queen Anne, 1702-1745.

- .51 Ward, Edward 1667-1731.
- .52 Swift, Jonathan 1667-1745.
- .53 Mandeville, Bernard de 1670-1733.
- .54 Arbuthnot, John 1675-1735.
- .55 Pope, Alexander 1688-1744.

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.6 Later 18th Century, 1745-1800.

- .61 Churchill, Charles 1733-1765.
- .62 Amory, Thomas 1691-1788.
- .63 Whitehead, Paul 1710-1774.
- .64 Junius 1679-1772.
- .65 Wolcott, John 1738-1819.
(pseud. Peter Pindar.)

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.7 Early 19th Century, 1800-1837.

- .71 Gifford, William 1757-1826.
- .72 Hood, Thomas 1798-1845.

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.8 Victorian.

- .81 Jerrold, Douglas 1803-1857.

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828 English Miscellany.

Divided into the same periods as 821 Poetry.

829 Anglo-Saxon Literature.

- .1 Poetry.
- .2 Cædmon.
- .3 Beowulf.
- .4 Cynewulf.
- .5 Homilies and Religious.
- .6 Ælfric.
- .7 Alfred the Great.
- .8 Miscellaneous.
- .9 Historical and Biographical.

830 German Literature.

830.1, Philosophy; .2, Compendis; .3, Dictionaries; .4, Essays, Lectures, and Addresses on German Literature; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Collections; .9, History.

831 German Poetry.

.02, Dramatic; .03, Romantic and Epic; .04, Lyric, Ballads; .05, Didactic; .06, Descriptive; .07, Satirical and Humorous; .09, History of German Poetry.

- .1 **Before the Crusades, --1150.**
- .11 "Hildebrandslied."
.12 Otfried.
.13 "Ludwigslied."
.14 "Muspilli."
- .2 **Middle High, 1150-1300.**
- .21 "Nibelungenlied."
.22 "Gudrun," and minor folk epics.
.23 Heinrich von Veldeke -1200.
.24 Wolfram von Eschenbach.
.25 Gottfried von Strassburg.
.26 Hartmann von Aue 1170-1220.
.27 Walther von der Vogelweide 1170-1230.
.28 Ulrich von Lichtenstein 1199-1276.
.29 Minor Writers.
- .3 **Period of Decline, 1300-1517.**
- .31 Horneck, Ottokar von.
.32 Hadamar von Laber.
.33 Hermann von Sachsenheim -1458.
.34 Büheler, Hans. "Die sieben weisen Meister," 1414-
.35 Kaspar von der Röhn. "Das Heldenbuch."
.36 "Theuerdank."
.37 "Die Haimonskinder."
.38 Mastersingers.
.39 Minor Writers.
- .4 **Reformation. New High, 1517-1625.**
- .41 Agricola, Martin 1486-1556.
.42 Waldis, Burkard 1490-1558.
.43 Alberus, Erasmus 1500-1553.
.44 Sachs, Hans 1494-1576.
.45 Ringwaldt, Bartholomäus 1530-1599.
.46 Rollenhagen, Georg 1542-1609.
.47 Andreä, Johann Valentin 1586-1654.
- .5 **Period of Imitation, 1625-1750.**
- [The Silesian Schools.]
- .51 Opitz von Boberfeld, Martin 1597-1639.
.52 Flemming, Paul 1609-1640.
.53 Logau, Friedrich von 1604-1655.
.54 Gerhardt, Paul 1607-1676.
.55 Hofmannswaldau, Christian Hofmann von 1618-1679.
.56 Zesen, Philipp von 1619-1689.
.57 Brockes, Barthold Heinrich 1680-1747.
.58 Bodmer, Johann Jakob 1698-1783.
.59 Minor Writers.

831.6 Classic Period, 1750-1830.

[For Göthe and Schiller, see 832.6.]

.61	Gellert, Christian Fürchtegott	1715-1769.
.62	Klopstock, Friedrich Gottlob	1724-1803.
.63	Bürger, Gottfried August	1748-1794.
.64	Herder, Johann Gottfried von	1744-1803.
.65	Voss, Johann Heinrich	1751-1826.
.66	Körner, Karl Theodor	1791-1813.
.67	Hölderlin, Johann Christian Friedrich	1770-1843.
.68	Platen Hallermünde, August, graf von	1796-1835.
.69	Minor Writers.	

.7 Post-Classic Period, 1830-1856.

.71	Arndt, Ernst Moritz	1769-1860.
.72	Eichendorff, Joseph, freiherr von	1788-1857.
.73	Uhland, Johann Ludwig	1787-1862.
.74	Rückert, Friedrich	1789-1866.
.75	Heine, Heinrich	1799-1856.
.76	Niemsch von Strehlenau, Nikolaus	1802-1850.
.77	Auersperg, Anton Alexander, graf von	[Anastasius Grün.] 1806-1881.
.78	Freiligrath, Ferdinand	1810-1876.
.79	Minor Writers.	

.8 Later 19th Century, 1856-

.81	Schefer, Leopold	1784-1862.
.82	Kinkel, Johann Gottfried	1815-1832.
.83	Geibel, Emanuel	1815-1884.
.84	Bodenstedt, Friedrich Martin	1819-
.85		
.86		
.87		
.88		
.89	Minor Writers.	

832 German Drama.

.5 Period of Imitation, 1625-1750.

.51	Gryphius, Andreas	1616-1664.
.52	Lohenstein, Daniel Caspar	1635-1683.
.53	Weise, Christian	1642-1708.
.54	Gottsched, Johann Christoph	1700-1776.
.55	Gottsched, Luise Adelgunde Victorie (Culmus)	1713-1762.

.6 Classic Period, 1750-1830.

.61	Lessing, Gottlob Ephraim	1729-1781.
.62	Göthe, Johann Wolfgang von	1749-1832.
.63	Schiller, Johann Christoph Friedrich	1759-1805.
.64	Klinger, Friedrich Maximilian	1753-1831.
.65	Iffland, August Wilhelm	1759-1814.
.66	Kotzebue, August Friedrich Ferdinand von	1761-1819.
.67	Werner, Friedrich Ludwig Zacharias	1768-1823.
.68	Kleist, Heinrich von	1776-1811.
.69	Minor Writers.	

832.7 Post-Classic Period, 1830-1856.

.71	Grabbe, Christian Dietrich	1801-1836.
.72	Griepenkerl, Wolfgang Robert	1810-1836.
.73	Grillparzer, Franz	1791-1872.
.74	Birch-Pfeiffer, Charlotte	1800-1868.
.75	Münch-Bellinghausen, Eligius Franz Joseph. [Friedrich Halm.]	1806-1866.
.76	Laube, Heinrich	1806-
.77	Hebbel, Friedrich	1815-1863.
.78	Gutzkow, Karl Ferdinand	1811-1878.
.79	Minor Writers.	

.8 Later 19th Century, 1856-

.81	Benedix, Julius Roderich	1811-1873.
.82	Mosenthal, Salomon Hermann	1821-1877.
.83	Brachvogel, Albert Emil	1824-1878.
.84	Gottschall, Karl Rudolph	1823-
.85	Lindau, Paul	1839-
.89	Minor Writers.	

833 German Fiction.

.5 Period of Imitation, 1625-1750.

.51	Buchholtz, Andrew Heinrich	1607-1671.
.52	Grimmelshausen, Christoffel von	1625-1676.
.53	Anselm, Heinrich	1653-1697.
.54	"Robinsonaden."	
.55	"Der Neue Amadis."	

.6 Classic Period, 1750-1830.

.61	Wieland, Christoph Martin	1733-1830.
.62	Richter, Jean Paul Friedrich	1763-1825.
.63	Hardenberg, Friedrich von [Novalis]	1772-1801.
.64	Hoffmann, Ernst Theodor Wilhelm	1776-1822.
.65	La Motte Fouqué, Friedrich H ; C ;	1777-1843.
.66	Arnim, Ludwig Achim von	1781-1831.
.67	Hauff, Wilhelm	1802-1827.
.68	Chamisso, Adelbert von	1781-1838.
.69	Minor Writers.	

.7 Post-Classic Period, 1830-1856.

.71	Zschokke, Johann Heinrich Daniel	1771-1848.
.72	Brentano, Clemens	1778-1842.
.73	Tieck, Ludwig	1773-1853.
.74	Postl, Karl [Charles Sealsfield]	1793-1864.
.75	Häring, Wilhelm [Wilibald Alexis]	1798-1871.
.76	Hahn-Hahn, Ida, gräfin von	1805-1880.
.77	Gerstäcker, Friedrich	1816-1872.
.78	Hackländer, Friedrich Wilhelm	1816-1877.
.79	Minor Writers.	

.8 Later 19th Century, 1856-

.81	Auerbach, Berthold	1815-1882.
.82	Freytag, Gustav	1816-
.83	Scheffel, Joseph Viktor von	1826-
.84	Spielhagen, Friedrich	1829-
.85	Heyse, Paul Johann Ludwig	1830-
.86	Ebers, Georg	1837-
.89	Minor Writers.	

834 German Essays. Subdivided by periods like 831.

835 German Oratory. " "

836 German Letters. " "

837 German Satire and Humor.

- .2 Middle High. Minnesingers, 1150-1300.
- .21 [Stricker, Der.] "Der Pfaffe Amis" und "Beispiele."
- .22 "Salomon und Morolf."
- .3 Period of Decline, 1300-1517.
- .31 "Reineke Vos."
- .32 Brant, Sebastian 1458-1521.
- .4 Reformation. New High, 1517-1625.
- .41 Murner, Thomas "Tyll Eulenspiegel." 1475-1537.
- .42 Fischart, Johann 1550-1589.
- .5 Period of Imitation, 1625-1750.
- .51 Moscherosch, Johann Michael 1601-1669.
- .52 Rachel, Joachim 1618-1669.
- .53 Wernicke, Christian 1660-1720.
- .54 Liscow, Christian Ludwig 1701-1760.
- .6 Classic Period, 1750-1830.
- .61 Rabener, Gottlieb Wilhelm 1714-1771.
- .62 Blumauer, Aloys 1755-1798.

838 German Miscellany.

839 Minor Teutonic Literatures.

Subdivided by form, Poetry, Drama, etc., like 830.

- .1 Low German.
- .2 Frisian. Old Saxon.
- .3 Dutch Literature. Flemish.
- .31 Dutch Poetry.
- .311 Middle Ages. 1200-1450.
[.1, Jacob van Maerlant 1235-1291; (.2, Heinrije van Veldeke 1200, see 831 23;)
.3, Jan I. van Brabant 1250-1294; .4, Melis Stoke 1310; .5, Dirc Potter 1428.]
- .312 Chambers of Rhetoric. 1450-1600.
[.1, Antonius de Rovere 1482; .2, Anna Bijns 1500; .3, Matthijs de Castelein 1488-
1548; .4, Cornelis Everaert 1550; .5, Jan Baptist Houwaert 1533-1599; .6, Dirk
Volkerszoon Coornhert 1522-1590; .7, Philipp Marnix 1538-1598; .8, Cornelis
van Ghistele 1600; .9, Minor Writers.]
- .313 Period of the Republic. 1600-1700.
[.1, Jacob Cats, 1577-1660; .2, Joost van der Vondel 1587-1679; .3, Marie Tessel-
schade Visscher 1531-1649; .4, Constantija Huygens 1596-1687; .5, Reyer
Anso 1626-1669; .6, Geraert Brandt 1626-1685; .7, Jan Antoniszoon van der
Goes (A..tonides) 1647-1684; .9, Minor Writers.]
- .314 Poetical Societies. 1700-1800.
[.1, Lucas Rotgans 1654-1710; .2, Hubert Corneliszoon Poot 1689-1733; .3, Arnold
Hoogvliet 1687-1763; .4, Sybrand Feitama 1694-1753; .5, Willem van Haren
1710-1768; .6, Jacob Bellamy 1757-1786; .7, Hieronymus van Alphen 1746-1803;
.9, Minor Writers.]
- .315 Modern Period. 1800-
[.1, Willem Bilderdijk 1756-1831; .2, Jan Frederik Helmers 1767-1813; .3, Cornelis
Louts 1765-1834; .4, Hendrik Tollens 1780-1856; .5, Isaac da Costa 1798-1860;
.6, Jan Jacob Lodewijk ten Kate 1819; .9, Minor Writers.]

- 839.32 Dutch Drama.
 .323 **Period of the Republic.** 1600-1700.
 [1, Gerbrand Adriaenszoon Bredero 1595-1618; 2, Corneliszoon Hooft 1581-1647; 3, Samuel Costa 1580-1650; 4, Jan Vos 1620-1667; 5, Guillelmus Oxler 1619-1689; 6, Joachim Oudaan 1628-1692; 9, Minor Writers.]
- .324 **Poetical Societies.** 1700-1800.
 [1, Pieter Langendijk 1683-1755; 2, Andrius Pels; 3, Balthasar Huydecoper 1695-1778; 4, Onno Zwier van Haren 1713-1779; 5, Jan Nomsz 1733-1803; 9, Minor Writers.]
- .325 **Modern Period.** 1800-
 [1, Samuel Iperuszoon Wiselius 1769-1845; 2, Helvetius van den Bergh 1795-1865; 3, Hendrik Jan Schimmel 1824-.]
- 839.33 Dutch Fiction.
 .334 **Poetical Societies.** 1700-1800.
 [1, Elisabeth Bekker Wolff 1738-1804; 2, Agatha Deken 1741-1804; 3, Rhijnvis Feith 1753-1824.]
- .335 **Modern Period.** 1800-
 [1, Adriaan Loosjes 1761-1818; 2, Jacob Vosmaer 1783-1834; 3, Jan Frederik Oltmans 1806-1854; 4, Jacob van Lennep 1802-1868; 5, Hendrik Conscience 1812-; 6, Anna Louisa Geertruida Bosboom-Tou saint 1812-.]
- 839.34 Dutch Essays.
 .344 **Poetical Societies.** 1700-1800.
 [Justus Van Effen 1684-1735.]
- .345 **Modern Period.** 1800-
 [1, Johannes Henricus van der Palm 1763-1840; 2, Reinier Cornelis Bakhuizen van den Brink 1810-1865; 3, Everhardus Johannes Potgieter 1808-1875; 4, Nicolaas Beets 1814-; 5, Coenraad Busken Huët 1826-.]
- 839.37 Dutch Satire and Humor.
 .371 **Middle Ages.** 1200-1450.
 [Reinaert (van den vos Reinaerde) see 837.31.]
- .374 **Poetical Societies.** 1700-1800.
 [Arend Simonszoon Fokke 1755-1812.]
- 839.38 Dutch Miscellany.
 The subdivisions of 8 show the leading writers in other branches of knowledge. In classification books are placed with their subjects, Theology, History, etc.
- .381 **Middle Ages.** 1200-1450.
 [Jan van Boendale (Jan de Clerc), *Chronicles*, 1280-1365.]
- .384 **Poetical Societies.** 1700-1800.
 [Simon St]l, *History*, 1731-1804; Jan Wagenaar, *History*, 1709-1773.]
- .4 Platt Deutsch.
- .5 Scandinavian.
- .6 Old Norse. Icelandic. Faroese.
- 839 7 Swedish Literature.
 .71 Swedish Poetry.
 .711 **Middle Ages.** 1200-1520.
 [1, Nicolaus Hermanni 1391; 2, Bishop Tomas 1443; 3, Ericus Olai 1486; 4, Ballads (Folkvisor).]
- .712 **Reformation.** 1520-1640.
 [1, Olauus Petri 1497-1552; 2, Laurentius Petri 1499-1573.]
- .713 **Age of Stjernihjelm.** 1640-1740.
 [1, Ceorg Stjernihjelm 1598-1672; 2, Lars Johansson (Lucidus) 1640-1674; 3, Haquin Spegel 1645-1714; 4, Israel Holmström 1660-1708; 5, Gunno Eurelius Dalusstjerna 1661-1709; 6, Johan Runius 1679-1713; 7, Jacob Frese 1691-1729; 8, Samuel von Triewald 1688-1743; 9, Minor Writers.]
- .714 **Age of Dalin.** 1740-1780.
 [1, Olof Carelius 1758; 2, Olof von Dalin 1708-1763; 3, Hedvig Charlotta Nordenflycht 1718-1763; 4, Anders Odel 1718-1771; 5, Gustaf Filip Creutz 1729-1785; 6, Gustaf Fredrik Gyllenborg 1731-1808; 7, Olof Bergklint 1733-1805; 9, Minor Writers.]
- .715 **Age of Gustavus.** 1780-1800.
 [1, Karl Mikael Bellman 1740-1795; 2, Johan Henrik Kellgren 1751-1795; 3, Bengt Lidner 1757-1793; 4, Johan Gabriel Oxenstjerna 1750-1818; 5, Tomas Thorild 1759-1808; 6, Anna Maria Lenngren 1754-1817; 7, Karl Gustaf af Leopold 1756-1829; 8, Frans Mikael Franzén 1772-1847; 9, Minor Writers.]
- .716 **Modern Period.** 1800-
 [1, Per Henrik Ling 1776-1839; 2, Johan Olof Wallin 1779-1839; 3, Essais Tegnér 1782-1846; 4, Erik Johan Stagnelius 1793-1823; 5, Per Daniel Amadens Atterbom 1790-1855; 6, Karl Jonas Ludvig Almqvist 1793-1866; 7, Johan Ludvig Runeberg 1804-1877; 8, Karl Vilhelm Böttiger 1807-1879; 9, Minor Writers.]

- 839.72 Swedish Drama.
 .722 Reformation. 1820-1840.
 [1, Johan Messenius 1579-1637; 2, Magnus Olai Asteropherus -1647; 3, Andreas
 Johannis Prytz 1590-1655.]
- .723 Age of Stjernihjelm. 1640-1740.
 [Isak Börk -1701.]
- .725 Age of Gustavus. 1780-1800.
 [1, Karl Israel Hallman 1732-1800; 2, Gustaf III. (King) 1746-1792; 3, Olof Kexél
 1748-1796; 4, Karl Envalissón 1756-1806.]
- .726 Modern Period. 1800-
 [1, Johan Börjesson 1790-1866; 2, Bernhard von Beskow 1796-1868; 3, August
 Teodor Blanche 1811-1868; 4, Johan Kristofer Jolin 1818-; 5, Frans Hedberg
 1828-; 6, Per Johan Edvard Bäckström 1841-.]
- 839.73 Swedish Fiction.
 .734 Age of Dalin. 1740-1780.
 [1, Jakob Henrik Mörk 1714-1763; 2, Jakob Vallenberg 1746-1778.]
- .736 Modern Period. 1800-
 [1, Sofia Margareta von Knorring 1797-1848; 2, Magnus Jakob Crusenstolpe 1795-
 1865; 3, Fredrika Bremer 1801-1865; 4, Karl Anton Wetterberg (Onkel
 Adam) 1804-; 5, Emilie Carlén 1807-; 6, Zakris Topelius 1818-; 7, Viktor Ryd-
 berg 1829-; 9, Minor Writers.]
- 839.74 Swedish Essays.
 .746 Modern Period. 1800-
 [1, Benjamin Karl Henrik Höljer 1767-1812; 2, Lorenzo Hammarsköld 1785-1827;
 3, Bernhard Elis Malmström 1816-1865; 4, Karl Julius Lénström 1811-; 5,
 Gustaf Håkan Jordan Ljunggren 1825-; 6, Karl Rupert Nyblom 1832-.]
- 839.77 Satire and Humor.
 .776 Modern Period. 1800-
 [1, Johan Anders Wadmar 1777-1837; 2, Erik Sjöberg (Vitalis) 1794-1828; 3, Kris-
 tian Erik Fahicrantz 1790-1866; 4, Vilhelm August Detlof von Braun 1813-
 1860; 5, Gunnar Wennerberg 1817-.]
- 839.78 Swedish Miscellany.
 The subdivisions of 8 show the leading writers in other branches of knowledge. In
 classification books are placed with their subjects, Theology, History, etc.
- .781 Middle Ages. 1200-1820.
 [Canon Mattias, *Bible Translation*, -1350; Peder Månsson, *Encyclopedia*, -1534.]
- .782 Reformation. 1520-1640.
 [1, Peder Andersson Svart, *History*, -1562; 2, Erik Göransson Tegel, *History*, 1580-
 1636; 3, Ægidius Girs, *History*, 1580-1639; 4, Gustavus Adolphus (King), *His-
 tory*, 1594-1632.]
- .783 Age of Stjernihjelm. 1640-1740.
 [1, Olof Rudbeck, *Medicine*, 1630-1702; 2, Urban Hjärne 1641-1724; 3, Johan
 Peringskjöld, *History*, 1654-1720; 4, Anders Rydelius, *Philosophy*, 1671-1738;
 5, Anders Celsius, *Astronomy*, 1701-1744; 6, Emanuel Swedenborg, *Theology*,
 1688-1772.]
- .784 Age of Dalin. 1740-1780.
 [1, Karl Gustaf Tessin, *History*, 1695-1770; 2, Karl von Linné, *Botany*, 1707-1778;
 3, Johan Ihre, *Philology*, 1707-1780; 4, Sven Lagerbring, *History*, 1707-1787;
 5, Anders Johan von Högken, *History*, 1712-1789; 6, Olof Celsius, *History*,
 1716-1794; 7, Anders af Botin, *History*, 1724-1790; 8, Torbern Olof Bergman,
Chemistry, 1735-1784; Karl Vilhelm Scheelr, *Chemistry*, 1742-1786.]
- .786 Modern Period. 1800-
 [1, Erik Gustaf Geiger, *History*, 1783-1847; 2, Anders Magnus Strinholm, *History*,
 1786-1862; 3, Anders Fryxell, *History*, 1795-1881; 4, Frederik Ferdinand
 Carlsson, *History*, 1811-.]
- 839.8 Danish and Norwegian Literature.
- .81 Danish and Norwegian Poetry.
- .811 Middle Ages. 1100-1500.
 [1, Anders Sunesen; 2, Ballads (Kjæmpeviser).]
- .812 Reformation. 1500-1560.
 [Hans Tavsén 1494-1561.]
- .813 Learned Period. 1560-1700.
 [1, Anders Arrebo 1587-1637; 2, Anders Bording 1619-1677; 3, Peder Syv 1631-1702;
 4, Thomas Kingo 1634-1703; 5, Peder Daas 1647-1708; 6, Dorte Engel-
 brektsdatter 1635-1716; 7, Sören Ter Kelsen 1661; 8, Jacob Vorm 1642-1693.]
- .814 Age of Holberg. 1700-1750.
 [1, Jürgen Sverterup 1662-1723; 2, Tøger Reenberg 1656-1742; 3, Kristian Falster
 1690-1752; 4, Hans Adolph Brorson 1694-1764; 5, Ambrosius Stub 1705-1758;
 6, Kristian Frederik Wadskjær 1712-1779.]

- 839.815 **Period of Enlightenment.** 1770-1800.
[1, Kristian Braunnmann Tull n 1728-1765; 2, Johannes Ewald 1743-1781; 3, Johan Herman Vessel 1742-1785; 4, Edvard Storm 1749-1794; 5, Kristen Henriksen Fram 1756-1821; 6, Jens Baggesen 1764-1826; 7, Knud Lyne Rahbek 1670-1830; 8, Malte Konrad Bruun 1775-1826; 9, Minor Writers.]
- .816 **Modern Period.** 1800-
[1, Adam Gottlob Oehlenschläger 1770-1850; 2, Bernhard Severin Ingemann 1789-1862; 3, Nicolai Frederik Severin Grundtvig 1783-1872; 4, Johannes Carsten Hauch 1790-1871; 5, Herrik Werzeland 1808-1845; 6, Ludvig Böttcher 1793-1874; 7, Frederik Paludan-Müller 1809-1876; 8, Carl Ploeg 1813; 9, Minor Writers.]
- 839.82 **Danish and Norwegian Drama.**
- .823 **Learned Period.** 1560-1700
[1, Hieronimus Justesen Rauch 1539-1607; 2, Hans Kristensen Steen 1541-1603; 3, Peder Jensen Hegelund 1542-1614; 4, Hans Thomsen Sthege; 5, Jens Lönberg 1663-1700.]
- .824 **Age of Holberg.** 1700-1750.
[1, Ludvig Holberg 1684-1754.]
- .825 **Period of Enlightenment.** 1750-1800.
[1, Charlotte Dorothea Biehl 1731-1788; 2, Johan Nordal Bruun 1745-1816; 3, Ole Johan Samsøe 1759-1796; 4, Enevold Falsen 1755-1803; 5, Thomas Thaarup 1749-1821; 6, Kristian Levin Sander 1756-1819; 7, Olaf Kristian Olufsen 1764-1827; 8, Peter Andreas Heiberg 1758-1841; 9, Minor Writers.]
- .826 **Modern Period.** 1800-
[1, Caspar Johannes Boye 1791-1853; 2, Johan Ludvig Heiberg 1791-1860; 3, Henrik Hertz 1798-1870; 4, Thomas Overskou 1798-1873; 5, Christian Knud Frederik Molbech 1821; 6, Henrik Ibsen 1828-.]
- 839.83 **Danish and Norwegian Fiction.**
- .836 **Modern Period.** 1800-
[1, Thomasine Christine Gyllembourg-Ehrensvärd 1773-1856; 2, Steen Steensen Blicher 1782-1843; 3, Christian Winther 1796-1876; 4, Hans Christian Andersen 1805-1875; 5, Meyr Aaron Goldschmidt 1819; 6, Holger Drachmann; 7, Bjørnstjerne Bjørnson 1832-.]
- 839.84 **Danish and Norwegian Essays.**
- .845 **Period of Enlightenment.** 1750-1800.
[Rasmus Nyerup 1759-1829.]
- .846 **Modern Period.** 1800-
[1, Niels Mathias Petersen 1781-1862; 2, Sören Aaby Kjrkegaard 1813-1855; 3, Rudolph Keyser 1803-1864; 4, Peter Andreas Munch 1810-1863; 5, Johan Sebastian Cammermeyer Welhaven 1807-1873; 6, Georg Brandes 1842-.]
- 839.87 **Danish and Norwegian Satire and Humor.**
- .875 **Period of Enlightenment.** 1750-1800.
[1, Peder Magnus Trojel 1743-1796; 2, Peder Koford Trojel 1754-1784; 3, Thomas Kristoffer Bruun 1750-1834.]
- 839.88 **Danish and Norwegian Miscellany.**
- The subdivisions of 8 show the leading writers in other branches of knowledge. In classification books are placed with their subjects, Theology, History, etc
- .881 **Middle Ages.** 1100-1500.
[1, Saxo (Longus) Grammaticus, *History*, -1208; 2, Svend Aagesen, *History*]
- .882 **Reformation.** 1500-1560.
[1, Kristiern Pedersen, "*The Father of Danish Literature*," 1480-1551; 2, Povl Eliesen, *Sermons*, 1480-; 3, Hans Mikkelsen, *Bible Translation*, -1532; 4, Peder Plade (Palladius) 1503-1560; 5, Henrik Smith, *Medicine*, -1563.]
- .883 **Learned Period.** 1600-1700.
[**History:** Hans Svaning 1508-1584; Anders Sörensen Vedel 1542-1616; Peder Klausen 1545-1614; Arild Hvitfeld 1549-1609; Klaus Lyskander 1558-1623; Ole Worm 1588-1654; Peder Resen 1625-1688.]
[**Theology:** Niels Hemmingsen 1513-1600; Holger Rosenkranz 1574-1642; Jesper Brochmand 1585-1652.]
[**Science:** Tyge Brahe, *Astronomy*, 1546-1601; Kaspar Bartholin, *Medicine*, 1585-1629; Thomas Bartholin, *Anatomy*, 1616-1680; O'e Borch, *Medicine*, 1626-1690; Niels Stensen, *Anatomy*, 1638-1686; Ole Römer, *Astronomy*, 1644-1710.]
- .884 **Age of Holberg.** 1700-1750.
[1, Erik Pontoppidan, *History*, 1698-1764; 2, Jacob Langebek, *History*, 1710-1775; 3, Frederik Kristian Eulschov, 1725-1750; 4, Gerhard Schöningh, *History*, 1722-1780; 5, Peder Frederik Suhm, *History*, 1728-1798.]
- .9 **Gothic.**

840 French Literature.

- 841 French Poetry.
- 842 „ Drama.
- 843 „ Fiction.
- 844 „ Essays.
- 845 „ Oratory.
- 846 „ Letters.
- 847 „ Satire, Humor.
- 848 „ Miscellany.
- 849 Provençal Literature.

[These Romance Literatures are subdivided into periods, with the leading authors indicated as are English and German. These heads are undergoing a careful revision, and have therefore been omitted from this edition, but will be supplied in form to be inserted in place of this page.]

850 Italian Literature.

- 851 Italian Poetry.
- 852 „ Drama.
- 853 „ Fiction.
- 854 „ Essays.
- 855 „ Oratory.
- 856 „ Letters.
- 857 „ Satire, Humor.
- 858 „ Miscellany.
- 859 Rumansh and Wallachian.

860 Spanish Literature.

- 861 Spanish Poetry.
- 862 „ Drama.
- 863 „ Fiction.
- 864 „ Essays.
- 865 „ Oratory.
- 866 „ Letters.
- 867 „ Satire, Humor.
- 868 „ Miscellany.
- 869 Portuguese Literature.

870 Latin Literature.

.1, Philosophy; .2, Compendis; .3, Dictionaries, Cyclopedias; .4, Essays; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Collections; .9, History of Latin Literature.

871 Latin Poetry in General.

See Dramatic, Epic and Lyric below.

- .1 **Lucretius Carus, Titus.**
- .2 **Ovid. (Publius Ovidius Naso.)**
- .3 **Hyginus, Caius Julius.**
- .4 **Faliscus, Gratius.**
- .5 **Manilius, Marcus.**
- .6 **Phædrus.**
- .7 **Lucilius Junior. "Ætna."**
- .8

872 Latin Drama.

- .1 **Andronicus, Livius.**
- .2 **Nævius, Cnæus.**
- .3 **Plautus, Titus Maccius.**
- .4 **Ennius.**
- .5 **Terence. (Publius Terentius Afer.)**
- .6 **Seneca, Lucius Annæus.**
- .7

873 Latin Epic Poetry.

- .1 **Virgil. (Publius Virgilius Maro.)**
- .2 **Lucanus, Marcus Annæus.**
- .3 **Flaccus, Caius Valerius.**
- .4 **Silius Italicus, Caius.**
- .5 **Stattus, Publius Papinius.**
- .6

874 Latin Lyric Poetry.

- .1 **Catullus, Tibullus and Propertius.**
- .2 **Catullus, Valerius.**
- .3 **Tibullus, Albius.**
- .4 **Propertius, Sextus Aurelius.**
- .5 **Horace. (Quintus Horatius Flaccus.)**
- .6 **Calpurnius Siculus.**
- .7

875 Latin Oratory.

- .1 Cicero, Marcus Tullius. Complete Works.
For Cicero's Letters see 876.1.
- .2 Orations.
- .3 Rhetorical Works.
- .4 Philosophical Works.
- .5 Messala Corvinus, Marcus Valerius.
- .6 Quintilian. (Marcus Fabius Quintilianus.)
- .7

876 Latin Letters.

- .1 Cicero, Marcus Tullius.
- .2 Pliny. (Caius Plinius Cæcilius Secundus.)
- .3 Fronto, Marcus Cornelius.
- .4

877 Latin Satire and Humor.

- .1 Lucilius, Caius.
- .2 Cato, Valerius.
- .3 Horace. See 874.5.
- .4 Persius Flaccus, Aulus.
- .5 Petronius Arbiter, Caius.
- .6 Martial. (Marcus Valerius Martialis.)
- .7 Juvenal. (Decimus Junius Juvenalis.)

878 Latin Miscellany.

- .1 Cæsar, Caius Julius.
- .2 Sallust. (Caius Sallustius Crispus.)
- .3 Nepos, Cornelius.
- .4 Livy. (Titus Livius Patavinus.)
- .5 Seneca, Lucius Annæus.
- .6 Tacitus, Caius Cornelius.
- .7 Suetonius Tranquillus, Caius.
- .8 Curtius Rufus, Quintus.
- .9 Minor Writers.

879 Mediæval and Modern Latin.

Subdivided like 820. .1, Poetry; .2, Drama; .3, Fiction; .4, Essays; .5, Oratory; .6, Letters; .7, Satire and Humor; .8, Miscellany.

880 Greek Literature.

.1, Philosophy; .2, Compendis; .3, Dictionaries; .4, Essays on Greek Literature; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Collections; .9, History of Greek Literature.

881 Greek Poetry in General.

See Dramatic, Epic, and Lyric, below.

- .1 Theognis.
- .2 Aratus.
- .3 Lycophron.
- .4 Babrius.

882 Greek Dramatic Poetry.

- .1 Æschylus.
- .2 Sophocles.
- .3 Euripides.
- .4 Aristophanes.
- .5 Epicharmus.
- .6 Menander.

883 Greek Epic Poetry.

- .1 Homer.
- .2 Hesiod.
- .3 Apollonius Rhodius.
- .4 Oppian.
- .5 "Orphic Poems."

884 Greek Lyric Poetry.

- .1 Tyrtæus.
- .2 Sappho.
- .3 Anacreon.
- .4 Simonides of Ceos.
- .5 Pindar.
- .6 Theocritus.
- .7 Bion.
- .8 Callimachus.
- .9 Minor Greek Lyric Poets

885 Greek Oratory.

- .1 Andocides.
- .2 Lysias.
- .3 Isæus.
- .4 Isocrates.
- .5 Æschines.
- .6 Demosthenes.
- .7 Hyperides.
- .8 Lycurgus.
- .9 Minor Greek Orators.

886 Greek Letters.

- .1 Themistocles.
- .2 Alciphron.
- .3 Phalaris.

887 Greek Satire and Humor.

For Comedies of Aristophanes see 882.4.

- .1 Archilochus.
- .2 Simonides of Samos.
- .3 Hipponax.

888 Greek Miscellany.

- .1 Herodotus.
- .2 Thucydides.
- .3 Xenophon.
- .4 Plato. See 184, Platonic Philosophy.
- .5 Aristotle. See 185, Aristotelian Philosophy.
Or if preferred the works of Plato and Aristotle may be put in 184 and 185.
- .6 Æsop.
- .7 Lucian.
- .8 Plutarch.
- .9 Minor Writers.

889 Medieval and Modern Greek.

.1, Poetry; .2, Drama; .3, Fiction; .4, Essays; .5, Oratory; .6, Letters; .7, Satire and Humor; .8, Miscellany.

890 Literature of Minor Languages.

Subdivided like 490, Philology of Minor Languages. If wished the .1, Poetry; .2, Drama, etc., numbers can be used after the language number. e. g., Russian Drama is 891.72; Hebrew Poetry 892.41; Bengali Poetry 891.441.

History.

900 History in General.

901-909 all have *History in General* as their subject, but it is treated in these various *forms*.

A periodical on English History goes with 942, not 905, which is only for periodicals on History in General. A Zero in any class number in any part of the classification shows the subject to be general, not specific.

901 Philosophy, Theories, etc.

902 Compends, Chronologies, Charts, Outlines.

For Chronology as a Science, see 529.

903 Dictionaries, Cyclopedias, etc.

904 Essays, Lectures, Addresses.

905 Periodicals, Historical Magazines.

906 Societies, Transactions, etc.

907 Education, Methods of Teaching, etc. See also 370.

908 Polygraphy, Collected Works, Extracts, etc.

909 Universal Histories.

910 Geography and Travels.

Including Topography, Maps, Antiquities, Descriptions, etc.

For map projection, see 526.9. See also 310 Statistics, 390 Customs and Costumes.

For Directories, Guide Books, Gazetteers, etc., of special countries or geographical sections, see under those sections, 914-919.

.1

.2 Traveler's Manuals, Guidebooks.

.3 Dictionaries, Gazetteers.

.4 Circumnavigations, Ocean Travel, Ship Wrecks and Disasters, Pirates.

.5 Periodicals.

.6 Societies.

.7 Study and Teaching of Geography. School Map Drawing.

.8 Collections of Travels, etc.

.9 History of Geography, Travels, Explorations, etc.

911 Historical. Growth and Changes in Political Divisions, etc. Subdivided like 930-999.

912 Maps, Atlases, Plans of Cities, etc. Subdivided like 930-999.

913 Antiquities, Archæology, of Special Countries.

Subdivided like 930-999.

914-919 is subdivided like 940-999. Whenever these main geographical headings occur they may be subdivided exactly like History. The full list of sub-heads is printed only under 940-999.

914 Europe.

915 Asia.

916 Africa.

917 North America.

918 South America.

919 Oceanica and Polar Regions.

920 Biography.

Including Autobiography, Diaries, Personal Narratives, Eulogies, Biographical Dictionaries, &c. All Biography is here grouped together under the main classes, and subdivided in the same way with the variations indicated below for Philosophy, Theology, and Sociology, i. e., the biography of science is divided like science itself, see 500-599. Lives of chemists are 925.4; of botanists, 925.8; of sailors, 926.56; of actors, 927.92; of the inventor of hard rubber, 926.75, &c. The rule is to give each life the number of the subject it illustrates most, or to the student of which it will be most useful.

Another plan is to scatter biography with the other books, leaving 920-928 blank, or using them only for general works, cross references, &c. This simply omits the first two figures 92, and the life of a botanist is 580 instead of 925.8, and goes with the botanical books.

General and Collective by Localities.

Including only collected lives too general to go under any subject heading.

- .01 Universal.
- .02 Partial Collections not limited to any special country or subject.
- .03 Ancient.
- .04 Of Europe.
- .05 „ Asia.
- .06 „ Africa.
- .07 „ North America.
- .08 „ South America.
- .09 „ Oceanica.

Individual and Collective by Subjects.

- 920.1 **Bibliographers.**
 - .2 **Librarians.**
 - .3 **Encyclopædists.**
 - .4 **Publishers.**
 - .5 **Journalists.**
 - .6 **Academicians.**
 - .7 **Women.** Collected only. Individual lives go with subject.
 - .8 **Eccentrics, Cranks, Fools, Insane, &c.**
 - .9 **Other special classes not included in 921-928, e. g.,
Phrenologists, Somnambulists, Mind Readers, Magicians, &c.**
- 921 **Of Philosophy.**
- .1 **American.**
 - .2 **English. Scotch.**
 - .3 **German.**
 - .4 **French.**
 - .5 **Italian.**
 - .6 **Spanish.**
 - .7 **Slavic.**
 - .8 **Scandinavian and Other Modern.**
 - .9 **Ancient. Oriental. Patristic. Scholastic.** See 180-189.
- 922 **Of Theology. Clergy, Missionaries, Preachers.**
- .1 **Primitive (Apostles, Fathers, &c.), Oriental, Greek, Russian.**
 - .2 **Roman Catholic. Popes, Cardinals, &c.**
 - .3 **Anglican and Protestant Episcopal.**
 - .4 **Continental Protestant. Lutheran, Huguenot.**
 - .5 **Presbyterian and Congregational.**
 - .6 **Baptist.**
 - .7 **Methodist.**
 - .8 **Unitarian, Universalist, and other.**
 - .9 **Non-Christian.**

923 Of Sociology.

- .1 Chief Rulers. Kings, Queens, Emperors, Presidents.
- .2 Political Science. Legislative Dept., Governors, Politicians, Statesmen, Nobles, &c.
- .3 Political Economy. Bankers, Capitalists, Financiers.
- .4 Law. Judiciary Dept., Lawyers, Judges, Criminals.
- .5 Administration. Army and Navy, Civil Service.
- .6 Associations and Institutions. Philanthropists, &c.
- .7 Education. Teachers, School Officers, Educators.
- .8 Commerce and Communication. R. R. Officials, Merchants, &c.
- .9 Manners and Customs. Society, Travelers, Discovery.

Subdivide 923.1-923.9 (and wherever else wished) by 5th and 6th figures for nationality, as in 930-999; e. g., the life of an English king is 923.142; of a Russian czar, 923.147; of a Chinese general, 923.551.

924 Of Philology.

- 925 „ Science.
- 926 „ Useful Arts.
- 927 „ Fine Arts.
- 928 „ Literature.

In adding figures for the subdivisions of Literature (as in 810-899) Historians are put with miscellaneous authors as 8, i. e., Gibbon's life is 928.28; 928.31 is life of a German poet, and 928.69 is life of a Portuguese poet.

929 Genealogy and Heraldry.

- .1 Genealogies.
- .2 Families.
- .3 Registers of Births, Baptisms, Marriages, Deaths.
- .4 Names of Persons and Places.
- .5 Epitaphs.
- .6 Heraldry.
- .7 Peerages, Precedence, Titles of Honor.
- .8 Coats of Arms, Crests.
- .9 Flags.

930 Ancient History.

931 China.

932 Egypt.

933 Judea.

934 India.

935 Medo-Persia.

- .1 Chaldæa.
- .2 Assyria.
- .3 Media.
- .4 Babylonia.
- .5 Persia.
- .6 Parthia.
- .7 New Persian or Sassanian.
- .8 Mesopotamia.
- .9 Susiana.

936 Kelts.

937 Rome. Italy.

Period Divisions.

.01	Kings.	753-509	B. C.
.02	Republic.	509- 31	"
.03	Conquest of Italy.	509-264	"
.04	Punic Wars.	264-146	"
.05	Civil Strife.	146- 31	"
.06	Empire.	31 B. C.-476	A. D
.07	Constitutional.	31 " -284	"
	Augustus—Illyrian Emperors.		
.08	Absolute.	284-476	"
.09	Division of Empire.	395-476	"
	Barbarian Conquests and Fall of Western Empire.		

Geographical Divisions.

- .1 Liguria.
- .2 Gallia Cisalpina.
- .3 Venetia. Iстриa.
- .4 Umbria. Picenum. Sabini, etc.
- .5 Etruria.
- .6 Latium, Rome.
- .7 Southern Italy: Campania, Samnium, Apulia, etc.
- .8 Sicily, Syracuse.
- .9 Sardinia. Corsica.

938 Greece.

Period Divisions.

.01	Mythical Age.	To 776 B. C.
.02	Growth of States.	775-500 "
.03	Persian Wars. Union of Greece.	510-479 "
.04	Athenian Supremacy.	479-431 "
.05	Peloponnesian War.	431-404 "
.06	Spartan and Theban Supremacy.	404-362 "
.07	Macedonian Supremacy.	362-323 "
.08	Roman Conquest of Greece.	323-146 "
.09	Greek Subjection.	146 B. C.-323 A. D.

Byzantine Empire is put 949.5.

Geographical Divisions.

- .1 Macedonia.
- .2 Thessaly. Epirus.
- .3 Acarnania. Ætolia. Locris. Doris. Phocis. Ithaca.
- .4 Bœotia. Megaris. Eubœa.
- .5 Attica.
- .6 Peloponnesus.
- .7 Corinthia. Achaia.
- .8 Elis. Arcadia. Argolis.
- .9 Messenia. Laconia.

939 Minor Countries.

- .1 Grecian Archipelago.
 - .11, Northern Islands: Thasos, Lemnos, etc.; .12, Lesbos; .13, Chios, etc.; .14, Samos, etc.; .15, Cyclades; .16, Rhodes, etc.; .17, Carpathos; .18, Crete.
- .2 Western Asia Minor.
 - .21, Mysia, Troas; .22, Lydia; .23, Ionia; .24, Caria; .25, Bithynia; .26, Phrygia; .27, Pisidia; .28, Lycia; .29, Pamphylia.
- .3 Eastern Asia Minor.
 - .31, Paphlagonia; .32, Galatia; .33, Pontus; .34, Cappadocia; .35, Cilicia; .36, Commagene; .37, Cyprus.
- .4 Syria.
 - .41, Upper Syria; .42, Cœle Syria; .43, Palmyrene; .44, Phœnicia, Tyre; .45, Palestine: Hittites, Philistines, etc.; .46, Edom, Moab, Bashan, etc.; .47, Arabia; .48, Arabia Petræa, Sinai.
- .5 North Western Asia.
 - .51, Scythia; .52, Sarmatia Asiatica; .53, Colchis; .54, Iberia; .55, Armenia; .56, Albania.
- .6 South Central Asia.
 - .61, Sogdiana; .62, Hyrcania; .63, Margiana; .64, Bactriana; .65, Ariana.
- .7 Minor African Countries.
 - .71, Mauritania; .72, Numidia; .73, Africa Propria, Carthage; .74, Syrtica Regio; .75, Cyrenaica; .76, Marmarica; .77, Libya, Gætulia; .78, Æthiopia.
- 8 South Eastern Europe.
 - .81, Sarmatia Europa; .82, Dacia; .83, Vindelicia; .84, Rhætia; .85, Noricum; .86, Pannonia; .87, Illyria; .88, Mœsia; .89, Thrasia.

940 Europe. From the fall of Western Empire (Rome), A. D. 476.

- | | | |
|----|--|------------|
| .1 | Medieval Europe. | 476-1453. |
| | For Byzantine Empire see 949-5. | |
| .2 | Rise of New Nations. | 476-800. |
| .3 | Age of Feudalism. | 800-1100. |
| | Charlemagne. 768-814.
Norman Conquests. | |
| .4 | Age of Chivalry. | 1100-1453. |
| | The Crusades. To fall of Eastern Empire (Constantinople), 1453.
For Church History see 270. | |
| .5 | Modern Europe. | 1453—— |
| .6 | The Renaissance Period. | 1453-1517. |
| | Discoveries and Inventions. | |
| .7 | Age of the Reformation. | 1517-1789. |
| | The 30 Years' War. 1618-1648. | |
| .8 | Napoleonic Period. | 1789-1815. |
| .9 | Current History. | 1815—— |

941 Scotland.

Period Divisions.

- | | | |
|-----|---|------------|
| .01 | Gaelic Period. | -1097. |
| .02 | English Period. | 1097-1314. |
| | Struggle for National Freedom. | |
| .03 | Independent Kingdom. | 1314-1424. |
| .04 | The Jameses. | 1424-1557. |
| .05 | Reformation. | 1557-1603. |
| .06 | Union of Crowns and Parliaments. | 1603-1707. |
| .07 | Hanover. | 1707-1837. |
| .08 | Victoria. | 1837- |
| .09 | | |

Geographical Divisions.

- | | |
|----|---|
| .1 | Northern Scotland. |
| | .11, Shetland; .12, Orkney; .13, Caithness; .14, Sutherland; .15, Cromarty; .16, Ross; .17, Hebrides. |
| .2 | North Central Scotland. |
| | .21, Inverness; .22, Nairn; .23, Elgin; .24, Banff; .25, Aberdeen; .26, Kincardine. |
| .3 | South Central Scotland. |
| | .31, Forfar; .32, Perth; .33, Fife; .34, Kinross; .35, Clackmannan; .36, Sterling; .37, Dunbarton; .38, Argyll; .39, Bute. |
| .4 | Southern Scotland. |
| | .41, Renfrew; .42, Ayr; .43, Lanark; .44, Linlithgow, Edinburgh; .45, Haddington, Berwick; .46, Peebles, Selkirk; .47, Roxburgh; .48, Dumfries; .49, Kirkcudbright, Wigton. |

941.5 Ireland.

Period Divisions.

.51	Early History.	-1086.
.52	Separate Kingdoms.	1086-1172.
.	Conquest by Henry II.	
.53	Plantagenet.	1172-1399.
.54	Lancaster and York.	1399-1485.
.55	Tudors.	1485-1603.
.56	Stuarts.	1603-1691.
	Closing with Treaty of Limerick.	
.57	Hanover.	1691-1801.
	Closing with the Union.	
.58	19th Century.	1801-
.59		

Geographical Divisions.

.6 Ulster.

.61, Antrim; .62, Londonderry; .63, Donegal; .64, Tyrone; .65, Down; .66, Armagh; .67, Monaghan; .68, Fermanagh; .69, Cavan.

.7 Connaught.

.71, Leitrim; .72, Sligo; .73, Mayo; .74, Galway; .75, Roscommon.

.8 Leinster.

.81, Longford, West Meath; .82, Meath, Louth; .83, Dublin; .84, Wicklow; .85, Kildare; .86, King's Co.; .87, Queen's Co.; .88, Carlow, Wexford; .89, Kilkenny.

.9 Munster.

.91, Waterford; .92, Tipperary; .93, Clare; .94, Limerick; .95, Cork; .96, Kerry.

942 England.

Period Divisions.

For specially minute work the 6th figure printed for each sovereign may be used; e. g., Henry VII is 942.051.

.01	Anglo-Saxon.	B. C. 55-A. D. 1066.
	Prehistoric, Roman, British, Danish.	
.02	Norman.	1066-1154.
	1, William I. 1066-1087; 2, William II. 1087-1100; 3, Henry I. 1100-1135; 4, Stephen 1135-1154.	
.03	Plantagenet.	1154-1399.
	1, Henry II. 1154-1189; 2, Richard I. 1189-1199; 3, John 1199-1216; 4, Henry III. 1216-1272; 5, Edward I. 1272-1307; 6, Edward II. 1307-1327; 7, Edward III. 1327-1377; 8, Richard II. 1377-1399.	

- 942 .04 Lancaster and York. 1400-1485.
 1, Henry IV. 1399-1413; 2, Henry V. 1413-1422; 3, Henry VI. 1422-1461; 4, Edward IV. 1461-1483; 5, Edward V. 1483; 6, Richard III. 1483-1485.
- .05 Tudor. 1485-1603.
 1, Henry VII. 1485-1509; 2, Henry VIII. 1509-1547; 3, Edward VI. 1547-1553; 4, Mary 1553-1558; 5, Elizabeth 1558-1603.
- .06 Stuart. 1603-1714.
 1, James I. 1603-1625; 2, Charles I. 1625-1649; 3, Commonwealth 1649-1653; 4, Oliver Cromwell 1653-1658; 5, Richard Cromwell 1658-1659; 6, Charles II. 1660-1685; 7, James II. 1685-1688; 8, William III. 1689-1702; 9, Anne 1702-1714.
- .07 Hanover. 1714-1837.
 1, George I. 1714-1727; 2, George II. 1727-1760; 3, George III. 1760-1820; 4, George IV. 1820-1830; 5, William IV. 1830-1837.
- .08 Victoria. 1837-

Geographical Divisions.

- .1 **Middlesex. London.**
- .2 **Southeastern.**
 .21, Surrey; .23, Kent; .25, Sussex; .27, Hants; .28, Isle of Wight; .29, Berks.
- .3 **Southwestern.**
 .31, Wilts; .33, Dorset; .34, Channel Islands; .35, Devon; .37, Cornwall; .38, Somerset.
- .4 **West Midland.**
 .41, Gloucester; .43, Monmouth; .44, Hereford; .45, Salop; .46, Stafford; .47, Worcester; .48, Warwick.
- .5 **North and South Midland.**
 .51, Derby; .52, Notts; .53, Lincoln; .54, Leicester, Rutland; .55, Northampton; .56, Huntington, Bedford; .57, Oxford, Buckingham; .58, Hertford; .59, Cambridge.
- .6 **Eastern.**
 .61, Norfolk; .64, Suffolk; .67, Essex.
- .7 **Northwestern and Yorkshire.**
 .71, Cheshire; .72, Lancashire; .74, Yorkshire.
- .8 **Northern.**
 .81, Durham; .82, Northumberland; .85, Cumberland; .83, Westmoreland; .89, Isle of Man.
- .9 **Wales.**
 .91, Anglesey; .92, Carnarvon, Merioneth; .93, Denbigh, Flint; .94, Montgomery; .95, Cardigan; .96, Radnor, Brecknock; .97, Glamorgan; .98, Carmarthen; .99, Pembroke.

943 Germany and Austria.

Period Divisions.

- .01 **Formative Period.**
Wars with Rome. Charlemagne 800-814; Louis I 814-840; Lothaire I 840-843.
- .02 **Empire before the Reformation.**
1, **Carolingian**, 843-911: Louis II 843-876; Charles II 876-877; Charles III 877-887; Arnulf 887-899; Louis III 900-911.
2, **House of Franconia**: Conrad I 911-918; House of **Saxony**, 919-1024: Henry I 919-936; Otto I 936-973; Otto II 973-983; Otto III 983-1002; Henry II 1002-1024.
3, **House of Franconia**, 1024-1125: Conrad II 1024-1039; Henry III 1039-1056; Henry IV 1056-1106; Henry V 1106-1125; House of **Saxony**: Lothaire II 1125-1137.
4, **House of Hohenstaufen**, 1137-1197: Conrad III 1138-1152; Frederick I 1152-1190; Henry VI 1190-1197.
5, **House of Hohenstaufen and Interregnum**, 1198-1272: Philip 1198-1208; Otto IV 1208-1212; Frederick II 1212-1250; Conrad IV 1250-1254; William of Holland 1254-1256; Richard of Cornwall 1256-1272.
6, **Houses of Hapsburg, Luxemburg, etc.**, 1273-1378: Rodolph I 1273-1291; Adolphus 1291-1298; Albert I 1298-1308; Henry VII 1308-1313; Louis IV 1313-1347; Charles IV 1347-1378.
7, **Interregnum**, 1378-1437: Wenceslaus 1378-1400; Rupert 1400-1410; Sigismund 1410-1437.
8, Albert II 1437-1439; Frederick III 1440-1493.
9, Maximilian I 1493-1519.
- .03 **Reformation to 1618.** 1517-1618.
1, Charles V 1519-1556; 2, Ferdinand I 1556-1564; 3, Maximilian II 1564-1576; 4, Rodolph II 1576-1612; 5, Matthias 1612-1619.
- .04 **Disintegration.** 1618-1705.
1, Thirty Years' War 1618-1648; 2, Ferdinand II 1649-1637; 3, Ferdinand III 1637-1657; 4, Leopold I 1658-1705.
- .05 **Rise of Prussia.** 1705-1789.
1, Joseph I 1705-1711; 2, Charles VI 1711-1740; 3, 1740-1742; 4, Charles VII 1742-1745; 5, Francis I 1745-1765; 6, *Seven Years' War* 1756-1763; 7, Joseph II 1765-1790.
- .06 **Napoleonic Wars.** 1789-1815.
Leopold II 1790-1792; Francis II 1792-1806; Confederation of the Rhine 1806-1815.
- .07 **Reorganization.** 1815-1866.
- .08 **New German Empire.** 1866-
1, North German Confederation 1866-1871; 2, Franco-German War 1870-1871; 3, William I 1871.

Geographical Divisions of Germany and Austria.

943.1 Prussia and Northern Germany.

- 943 .11, East Prussia; .12, West Prussia; .13, Posen; .14, Silesia; .15, Brandenburg; .16, Pomerania; .17, Mecklenburg and Lubeck; .18, Prussian Saxony; .19, Anhalt.

.2 Central Germany.

- .21, Saxony; .22, Thuringia; .23, Saxe-Weimar; .24, Saxe-Altenburg; .25, Saxe-Gotha-Coburg; .26, Saxe-Meiningen; .27, Schwartzburg; .28, Reuss.

- 943-3 **Bavaria.**
 .31, Upper Franconia; .32, Middle Franconia; .33, Lower Franconia; .34, Upper Palatinate; .35, Lower Bavaria; .36, Upper Bavaria; .37, Suabia.
- .4 **Southern Germany.**
 .41, Hesse Darmstadt; .42, Rhenish Prussia; .43, Rhenish Bavaria; .44, Alsace; .45, Lorraine; .46, Baden; .47, Wurtemberg; .48, *Black Forest* and *Danube*; .49, Hohenzollern.
- .5 **Northwest Germany.**
 .51, Schleswig-Holstein and Hamburg; .52, Oldenburg and Bremen; .53, Hanover; .54, Brunswick; .55, Lippe; .56, Westphalia; .57, Waldeck; .58, Hesse-Nassau.

943.6 Austria.

- .61, Lower Austria; .62, Upper Austria; .63, Salzburg; .64, Tyrol; 65, Styria; .66, Carinthia; 67, Carniola; .68, Istria; .69, Dalmatia.
- .7 **Bohemia, etc.**
 .71, Bohemia; .72, Moravia; 73, Silesia; .74, Galicia; .75, Bukowina.
- .8 **Poland.**
- .9 **Hungary, etc.**
 91, Hungary; 92, Transylvania; 93, Slavonia; 94, Croatia, Fiume; 95, Bosnia; 96, Herzegovina.

944 France.

Period Divisions.

- .01 **Early History.** -987.
 Ancient Celts -59 B. C.; Roman Dominion 59 B. C.-418 A. D.; Merovingian Dynasty 428-752; Carolingian 752-987.
- .02 **Capet and Valois.** 987-1589.
House of Capet.
 1, Hugh Capet 987-996; Robert II 996-1031; Henry I 1031-1060.
 2, Philip I 1060-1108; Louis VI 1108-1147; Louis VII 1147-1180.
 3, Philip II 1180-1223; Louis VIII 1223-1226; Louis IX 1226-1270.
 4, Philip III 1270-1285; Philip IV 1285-1314; Louis X 1314-1316; John I 1316; Philip V 1316-1322; Charles IV 1322-1328.
House of Valois.
 5, Philip VI 1328-1350; John II 1350-1364; Charles V 1364-1380.
 6, Charles VI 1380-1422; Charles VII 1422-1461.
 7, Louis XI, 1461-1483; Charles VIII 1483-1498; Louis XII 1498-1515.
House of Angoulême.
 8, Francis I 1515-1547; Henry II 1547-1559.
 9, Francis II 1559-1560; Charles IX 1560-1574; Henry III 1574-1589.
- .03 **Bourbon.** 1589-1789
 1, Henry IV 1589-1610; 2, Louis XIII 1610-1643; 3, Louis XIV 1643-1715; 4, Louis XV 1715-1774; 5, Louis XVI 1774-1789.
- .04 **Revolution.** 1789-1804.
 1, National Assembly 1789-1792; 2, First Republic 1792-1799; 3, Convention, 1792-1795; 4, Reign of Terror; May 1793-July 1794; 5, Directory 1795-1799; 6, First Consulate, Napoleon, 1799-1804.
- .05 **First Empire.** 1804-1815.
 Napoleon I 1804-1814; Louis XVIII 1814-1815; The Hundred Days March 20-June 29, 1815.

- 944.06 Restoration. 1815-1848.
1, Louis XVIII 1815-1824; 2, Charles X 1824-1830; 3, Louis Philippe 1830-1848.
- .07 Second Republic and Second Empire. 1848-1870.
Revolution of 1848; Second Republic, Louis Napoleon, Pres., 1848-1852, Napoleon III 1852-1870.
- .08 Third Republic. 1870-
Franco-German War, Government of National Defence 1870-1871; National Assembly 1871; Presidency of Thiers 1871-1873; McMahon 1873-1879; Grévy 1879-

Geographical Divisions of France.

- 944.1 **Brittany. Maine. Anjou.**
.11, Finistère; .12, Côtes du Nord; .13, Morbihan; 14, Loire Inférieure; 15, Ille et Vilaine; 16, Maine: Mayenne; 17, Sarthe; 18, Anjou: Maine et Loire.
- .2 **Normandy. Picardy.**
.21, Manche; .22, Calvados; .23, Orne; 24, Eure; 25, Seine Inférieure; 26, Picardy: Somme; 27, Artois: Pas de Calais; 28, Nord.
- .3 **Champagne. Isle de France. Lorraine.**
.31, Ardennes; .32, Marne; .33, Aube, Haute Marne; .34, Isle de France: Aisne; .35, Oise; 36, Seine et Oise, Paris; .37, Seine et Marne; .38, Lorraine: Meuse, Moselle; 39, Meurtha, Vosges.
- .4 **Burgundy. Franche Comte. Savoy.**
.41, Yonne; .42, Côte d'Or; .43, Saône et Loire; .44, Ain; .45, Franche Comte: Haute Saône, Belfort; .46, Doubs; .47, Jura; .48, Savoy: Savoie; .49, Haute Savoie.
- .5 **Orleans, etc. Auvergne.**
.51, Eure et Loir; .52, Loir-et; .53, Loir et Cher; 54, Touraine: Indre et Loir; .55, Berry: Indre, Cher; .56, Nivernais: Nièvre; .57, Bourbonnais: Allier; .58, Lyonnais: Loire, Rhône; .59, Auvergne: Puy de Dôme, Cantal.
- .6 **Poitou. Limousin.**
.61, Vendée; .62, Deux Sèvres; .63, Vienne; .64, Charente Inférieure; .65, Charente; .66, Limousin: Haute Vienne; .67, Corrèze; .68, Marche: Creuse.
- .7 **Guienne. Gascony.**
.71, Gironde; .72, Dordogne; .73, Lot; .74, Aveyron; .75, Tarn et Garonne; .76, Lot et Garonne; .77, Gascony: Landes, Gers; .78, Hautes Pyrénées; .79, Bearn: Basses Pyrénées.
- .8 **Languedoc.**
.81, Haute Loire, Lozère; .82, Ardèche; .83, Gard; .84, Hérault; .85, Tarn; .86, Haute Garonne; .87, Aude; .88, Foix: Ariège; .89, Pyrénées Orientales.
- .9 **Provence. Dauphiny.**
.91, Bouches du Rhône; .92, Vaucluse; .93, Var; .94, Alpes Maritimes; .95, Basses Alpes; 96, Dauphiny; 97, Hautes Alpes; 98, Drôme; 99, Isère.

945 Italy.

Period Divisions.

.01	Gothic and Lombard Kingdoms.	476-774.
.02	Frankish Emperors.	774-961.
.03	German Emperors. Hildebrand and Papal Supremacy.	962-1122.
.04	Age of the Communes. Free Cities. Strifes of Guelphs and Ghibelines.	1100-1300.
.05	Age of the Despots.	1300-1492.
.06	Age of Invasions.	1492-1527.
.07	Spanish-Austrian Ascendancy.	1527-1796.
.08	Struggle for Independence.	1796-1870.
.09	United Italy. Victor Emanuel, Cavour, Garibaldi.	1870-

Geographical Divisions of Italy.

945.1	Piedmont and Liguria.
.2	Lombardy.
.3	Venetia.
.4	Emilia.
.5	Tuscany.
.6	Marches, Umbria and Latium.
.7	Naples. .71, Abruzzo and Molise; .72, Campania; .73, Napoli; .74, Salerno; .75, Apulia; .76, Lecce, Terra di Otranto; .77, Basilicata, Potenza; .78, Calabria; .79, Reggio di Calabria.
.8	Sicily. Malta.
.9	Sardinia and Corsica.

946 Spain.

Period Divisions.

.01	Early History. Roman Dominion. Gothic Kingdom.	— 711.
.02	Moorish Kingdom.	711-1479.
.03	Ferdinand V and Isabella. Discovery. Expulsion of the Moors.	1479-1516
.04	Charles I and Philip II. Inquisition. War with the Netherlands. Armada. Charles I (V of Germany) 1516-1556; Philip II 1556-1598.	1516-1598.
.05	Philip III.—Charles IV. Degeneration. 1, Philip III 1598-1621; 2, Philip IV 1621-1655; 3, Charles II 1665-1700; 4, House of Bourbon: 5, Philip V 1700-1746; 6, Ferdinand VI 1746-1759; 7, Charles III 1759-1788; 8, Charles IV 1788-1808.	1598-1808.
.06	Peninsular War. Joseph Bonaparte.	1808-1814.
.07	Bourbon Restoration. Attempts at Reform.	1814-1868.
	Ferdinand VII 1814-1833; Isabella II.	1833-1868.
.08	Later 19th Century. Revolution of 1863-1870; Amadeus 1870-1873; Republic 1873-1875; Alfonso XII 1875—	1868 —

Geographical Divisions of Spain.

- 946.1 Galicia. Asturias.
- .2 Leon. Estramadura.
- .3 Old Castile.
- .4 New Castile.
- .5 Aragon.
- .6 Basque Provinces.
- .7 Catalonia. Balearic Isles. Valencia. Murcia.
- .8 Andalusia. Canary Isles.
- .9 Portugal.
.98, Madeira; .99, Azores.

947 Russia.

Period Divisions.

- .01 Primitive Russia. — 862.
- .02 Varangian Kingdom. 862-1237.
Conversion to Christianity.
- .03 Mongolian Invasion. 1237-1462.
Civil Wars.
- .04 Ivan III—Ivan V. 1462-1689.
Origin of Serfdom.
- .05 Peter the Great. 1689-1725.
Wars with Sweden and Turkey.
- .06 Catharine I—Catharine II. 1725-1796.
Partition of Poland.
- .07 Paul I—Nicholas I. 1796-1855.
War with Napoleon.
Insurrection of Poland.
Crimean War.
- .08 Alexander II— 1855 —
Emancipation of the Serfs.
Turko-Russian War.

Geographical Divisions of Russia.

- 947.1 Finland. Lapland.
- .2 Northern Great Russia.
Archangel; Vologda; Olonetz; Novgorod.
- .3 Southern Great Russia.
- .4 Baltic Provinces.
Courland; Livonia; Esthonia; St. Petersburg.
- .5 Russian Poland.
- .6 West Russia.
- .7 Little Russia. South Russia.
- .8 East Russia.
- .9 Caucasia.

948 Norway, Sweden, and Denmark.

Period Divisions.

.01	Legendary Period.	— 800.
.02	Consolidation. Migration.	801-1397.
	Introduction of Christianity.	
	Discovery of Iceland, Greenland, and America.	
	Conquest of Britain and Normandy.	
.03	Union of the three kingdoms.	1397-1523.
	Civilization. Foreign relations.	
.04	The Reformation.	1523-1648.
	Edict of Toleration, 1527.	
	30 Years' War. Gustavus Adolphus.	
.05	Decline.	1648-1792.
	Wars, vs. Denmark, Poland, Russia.	
	Political changes.	
.06	Napoleonic Wars.	1792-1818.
	Union of Norway and Sweden, 1814.	
.07	Charles XIV. (Bernadotte).	1818 —.
	Peace. Internal reform.	
.08		

Geographical Divisions.

- .1 Norway.
- .2 Christiania.
- .3 Christiansand. Bergen.
- .4 Hamar. Thronhjelm. Tromsø.
- .5 Sweden.
- .6 Gothland.
- .7 Svealand.
- .8 Norrland.
- .9 Denmark.

949 Minor Countries of Europe.

- .1 Iceland. Faroe Islands.
01, Commonwealth, -1264; 02, Mediævalism, 1264-1551; 03, Absolute Rule, Decay, 1551-1848; 04, Modern Iceland, 1848 —.
- .2 Netherlands.
01, Early History, -1477; 02, Austrian Dominion, 1477-1566; 03, Wars for Independence, 1566-1648; 04, Age of Prosperity, 1648-1795; 05, Revolutionary, 1795-1830; 06, 19th Century, 1830 —.
- .3 Belgium.
- .4 Switzerland.
01, Early History, -1300; 02, Struggle for Independence, 1300-1499; 03, Reformation, 1499-1648; 04, Period of Tranquillity, 1648-1789; 05, Period of Revolution, 1789-1815; 06, 19th Century, 1815 —.

949-5 **Byzantine Empire and Modern Greece.**

- 01, Greek Revival. 323-716.
Constantine the Great — Theodosius III.
- 02, Byzantine Prosperity. 716-1057.
Leo III — Michael VI.
- 03, Byzantine Decline. 1057-1204.
Isaac I — Latin conquest of Constantinople.
- 04, Greek Survival. 1204-1453.
Constantinople taken by the Turks, 1453.
- 05, Turkish Power. 1453-1821.
- 06, Greek Independence. 1821 —.

.6 **Turkey in Europe.**

.7 **Servia. Bulgaria. Montenegro.**

.8 **Roumania: Wallachia, Moldavia.**

.9 **Islands of Grecian Archipelago.**

Divided like 939.1.

950 **Asia.**

951 **China.**

- .1, N. E. China, Peking; .2, S. E. China, Canton, Hong Kong, Formosa;
- .3, S. W. China; .4, N. W. China; .5, Thibet; .6, East Turkestan; .7, Mongolia; .8, Manchuria; .9, Corea.

952 **Japan.**

953 **Arabia.**

- .1, Sinai; .2, Hejaz, Mecca; .3, Yemen; .4, Hadramaut, Mahrah; .5, Oman;
- .6, Hasa; .7, Dahna; .8, Nejd; .9, Syrian Desert.

954 **India.**

- .1, Bengal, Orissa, Assam, Bhotan; .2, Northwest Provinces, Oudh, Nepal;
- .3, Central Provinces; .4, Rajputana; .5, Punjab, Delhi, Lahore; .6, Cashmere; .7, Bombay, Sind, Baroda; .8, Madras, Mysore, Travancore, Ceylon; .9, Hyderabad.

955 **Persia.**

956 **Turkey in Asia.**

- .1, Khodavendikyar; .2, Aidin, Smyrna; .3, Kastamuni, Angora; .4, Konieh, Adana, Cyprus; .5, Trebizond, Sivas; .6, Erzerum, Diarbekr, Karkoot;
- .7, Bagdad, Kurdistan; .8, Aleppo; .9, Damascus, Phœnicia, Palestine.

957 **Siberia.**

958 **Afghanistan. Turkestan. Baluchistan.**

- .1, N. E. Afghanistan, Cabul; .2, South Afghanistan, Candahar; .3, N. W. Afghanistan, Herat; .4, Turkestan; .5, Kiva; .6, Bokhara; .7, Ferghana or Khokan; .8, Baluchistan.

959 **Farther India.**

- .1, British Burmah; .2, Burmah; .3, Siam; .4, Laos; .5, Lower Siam, Malay Peninsula; .6, Cambodia; .7, French Cochinchina; .8, Anam; .9, Tonkin.

960 Africa.

961 North Africa.

.1, Tunis; .2, Tripoli; .3, Fezzan.

962 Egypt.

.1, Lower Egypt, Alexandria, Cairo; .2, Middle Egypt; .3, Upper Egypt, Thebes; .4, Nubia; .5, Dongola; .6, Egyptian Soudan, Kartum; .7, Darfur; .8, Kordofan; .9, Sennaar.

963 Abyssinia.

964 Morocco.

965 Algeria.

966 North Central Africa.

.1, Sahara; .2, Soudan; .3, Senegambia; .4, Sierra Leone; .5, Upper Guinea; .6, Liberia; .7, Ashantee; .8, Dahomey; .9, Gold Coast.

967 South Central Africa.

.1, Lower Guinea; .2, Loango, Congo; .3, Angola, Benguela; .4, Interior; .5, Congo Basin; .6, Central Lake Region; .7, Somali; .8, Zanzibar; .9, Mozambique.

968 South Africa.

.1, Sofala; .2, Transvaal; .3, Zululand; .4, Natal; .5, Orange Free State; .6, Kaffraria; .7, Cape Colony; .8, West Coast; .9, Interior.

969 Madagascar. Mauritius.

970 North America.

.1, Indians, Aborigines; .2, Lives of Indians; .3, Special Tribes; .4, Special States; .5, Government Relation and Treatment; .6, Special Subjects, Character, Civilization, Agriculture, etc.

971 Canada. British America.

.1 British Columbia.

.2 North-West Territory.

.21, ; .22, Athabasca; .23, Alberta; .24, Saskatchewan; .25, Assiniboia; .26, Keewatin; .27, Manitoba; .28, N. E. Territory.

.3 Ontario.

.4 Quebec.

.5 New Brunswick.

.6 Nova Scotia.

.7 Prince Edward Island.

.8 Newfoundland.

.9 Labrador.

972 Mexico. Central America.

Period Divisions.

.01	Ancient Civilization.	— 1516.
	1, Toltec; 2, Chichimec; 3, Tarascan; 4, Aztec; 5, Maya.	
.02	Discovery and Spanish Rule.	1516-1810.
.03	Independence.	1810-1822.
.04	First Empire. Iturbide I. Pronunciamientos.	1822-1845.
.05	War with U. S.	1845-1848.
.06	Constitution of '57. Reform.	1848-1861.
.07	French Intervention.	1861-1867.
.08	Later History.	1867 —

Geographical Divisions.

- .1 **Free Zone and Northern States.**
Tamaulipas, Nuevo Leon, Cohahuila, Chihuahua, Sonora, Durango.
- .2 **Lower California and Islands.**
- .3 **Central Pacific States.**
Sinaloa, Jalisco, Colima, Michoacan.
- .4 **Interior States.**
Zacatecas, San Luis Potosi, Aguascalientes, Guanajuato, Querétaro, Hidalgo, Puebla, Tlascala, Morelos.
- .5 **Mexico. Federal District.**
- .6 **Southern Gulf States.**
Veracruz, Tabasco, Campeche, Yucatan.
- .7 **Southern Pacific States.**
Guerrero, Oaxaca, Isthmus of Tehuantepec, Chiapas.
- .8 **Central America.**
 - .81 Guatemala.
 - .82 British Honduras.
 - .83 Honduras.
 - .84 San Salvador.
 - .85 Nicaragua.
 - .86 Costa Rica.
- .9 **West Indies.**
 - .91 Cuba.
 - .92 Jamaica.
 - .93 Santo Domingo.
 - .94 Hayti.
 - .95 Porto Rico.
 - .96 Bahamas.
 - .97 Leeward Islands.
 - .98 Windward Islands, Barbadoes.
 - .99 Bermudas.

973 United States and Territories.

Period Divisions.

- | | | |
|----|--|-----------------|
| .1 | Discovery.
Norse, Spanish, Dutch, French, English. | A. D. 896-1607. |
| .2 | Colonial.
French and Indian Wars. | 1607-1775. |
| .3 | Revolution and Confederation. | 1775-1789. |
| .4 | Constitution.
Federalists and Republicans.
Washington, 1789-1797; John Adams, 1797-1801; Jefferson, 1801-1809. | 1789-1812. |
| .5 | War of 1812.
Hartford Convention. 1814.
Nullification in South Carolina. 1832.
Annexation of Texas. 1845.
Madison, 1809-1817; Monroe, 1817-1825; John Quincy Adams, 1825-1829; Jackson, 1829-1837; Van Buren, 1837-1841; Harrison, 1841; Tyler, 1841-1845. | 1812-1845. |
| .6 | War with Mexico.
The Wilmot Proviso. 1846.
Compromise of 1850.
Struggle in Kansas. 1854-1859.
Polk, 1845-1849; Taylor, 1849-1850; Fillmore, 1850-1853; Pierce, 1853-1857; Buchanan, 1857-1861. | 1845-1861. |
| .7 | Civil War.
Abolition of Slavery.
Lincoln, 1861-1865. | 1861-1865. |
| .8 | Later 19th Century.
Reconstruction. Civil Service Reform.
Johnson, 1865-1869; Grant, 1869-1877; Hayes, 1877-1881; Garfield, 1881; Arthur, 1881-1885; Cleveland, 1885 —. | 1865 —. |

974 North-Eastern or North Atlantic. New England.

- | | |
|----|---|
| .1 | Maine. |
| .2 | New Hampshire. |
| .3 | Vermont. |
| .4 | Massachusetts.
.41 Berkshire.
.42 Franklin. Hampshire. Hampden.
.43 Worcester.
.44 Middlesex.
.45 Essex.
.46 Suffolk. <i>Boston.</i>
.47 Norfolk.
.48 Plymouth. Bristol.
.49 Barnstable. Dukes. Nantucket. |
| .5 | Rhode Island. |
| .6 | Connecticut. |

974.7

New York.

- .71 New York City.
- .72 Vicinity of New York City.
 - 1, Long Island; 2, Kings Co.; 3, *Brooklyn*; 4, Queens Co.; 5, Suffolk Co.; 6, Richmond Co., Staten Island; 7, Westchester Co.; 8, Rockland Co.
- .73 South-East Counties.
 - 1, Orange, *West Point*; 2, Putnam; 3, Dutchess; 4, Ulster; 5, Sullivan; 6, Delaware; 7, Green; 8, *Catskill Mts.*; 9, Columbia.
- .74 Middle East Counties.
 - 1, Rensselaer, *Troy*; 2, Albany; 3, *Albany City*; 4, Schenectady; 5, Schoharie; 6, Montgomery; 7, Fulton; 8, Saratoga; 9, Washington.
- .75 Northern Counties.
 - 1, Warren, *Lake George*; 2, Hamilton; 3, Essex, *Adironducks*; 4, Clinton; 5, Franklin; 6, St. Lawrence; 7, Jefferson; 8, *The Thousand Islands*; 9, Lewis.
- .76 North Central Counties.
 - 1, Herkimer; 2, Oneida; 3, *Utica*; 4, Madison; 5, Onondaga; 6, *Syracuse*; 7, Oswego; 8, Cayuga; 9, Seneca.
- .77 South Central Counties.
 - 1, Tompkins; 2, Cortland; 3, Chenango; 4, Otsego; 5, Broome; 6, *Binghamton*; 7, Tioga; 8, Chemung; 9, *Elmira*.
- .78 West Central Counties.
 - 1, Schuyler; 2, Yates; 3, Steuben; 4, Alleghany; 5, Livingston; 6, Ontario; 7, Wayne; 8, Monroe; 9, *Rochester*.
- .79 Western Counties.
 - 1, Orleans; 2, Genesee; 3, Wyoming; 4, Cattaraugus; 5, Chautauqua; 6, Erie; 7, *Buffalo*; 8, Niagara; 9, *Niagara Falls*.

.8 **Pennsylvania.**

.9 **New Jersey.**

975 **South-Eastern or South Atlantic.**

Including general works on "the South."

- .1 **Delaware.**
- .2 **Maryland.**
- .3 **District of Columbia.**
- .4 **West Virginia.**
- .5 **Virginia.**
- .6 **North Carolina.**
- .7 **South Carolina.**
- .8 **Georgia.**
- .9 **Florida.**

976 South Central or Gulf.

- .1 Alabama.
- .2 Mississippi.
- .3 Louisiana.
- .4 Texas.
- .5
- .6 Indian Territory.
- .7 Arkansas.
- .8 Tennessee.
- .9 Kentucky.

977 North Central or Lake.

- .1 Ohio.
- .2 Indiana.
- .3 Illinois.
- .4 Michigan.
- .5 Wisconsin.
- .6 Minnesota.
- .7 Iowa.
- .8 Missouri.
- .9

978 Western or Mountain.

- .1 Kansas.
- .2 Nebraska.
- .3 Dakota.
- .4
- .5
- .6 Montana.
- .7 Wyoming.
- .8 Colorado.
- .9 New Mexico.

979 Pacific.

- .1 Arizona.
- .2 Utah.
- .3 Nevada.
- .4 California.
- .5 Oregon.
- .6 Idaho.
- .7 Washington.
- .8 Alaska.

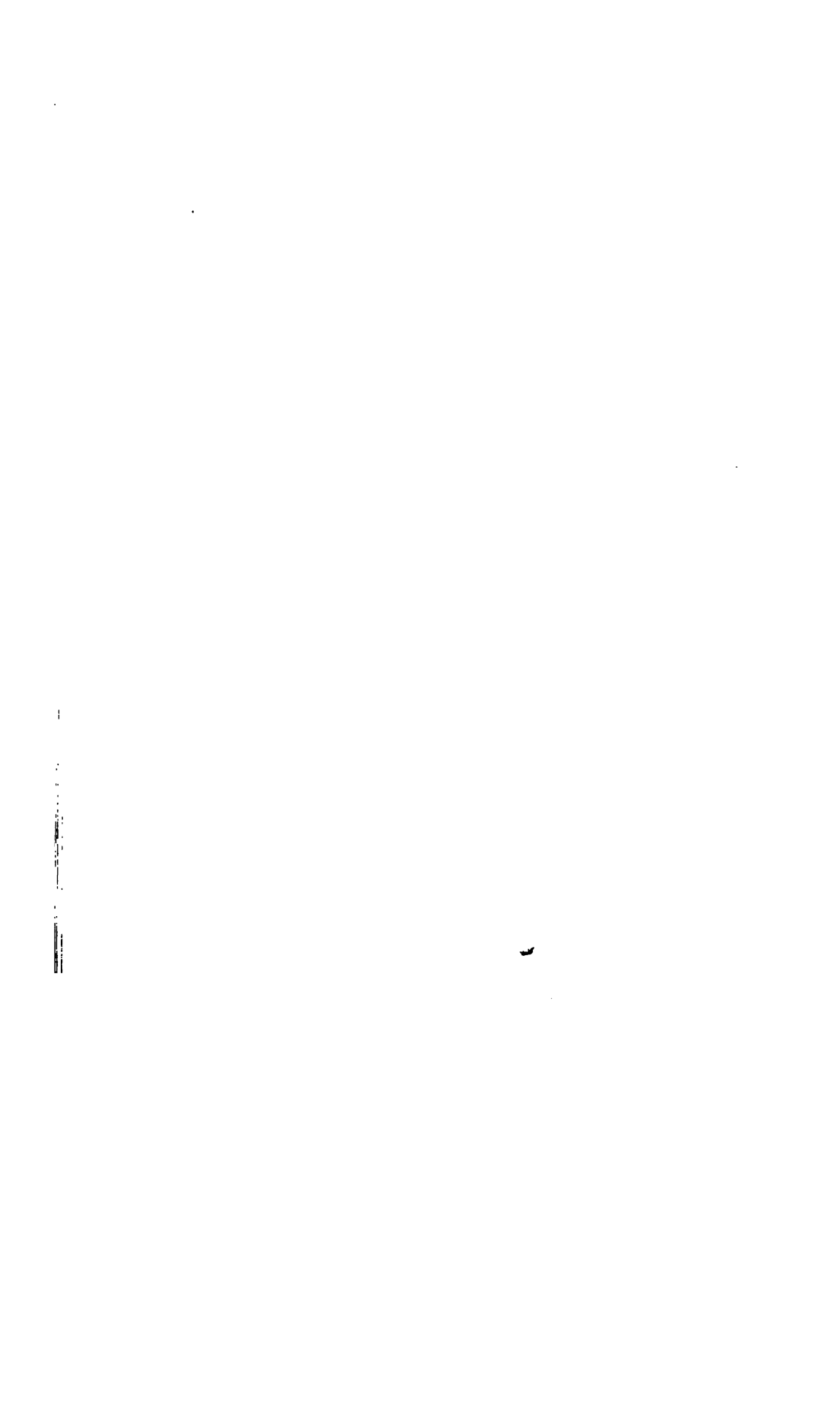
980 South America.

- 981 Brazil.
- 982 Argentine Republic. Patagonia.
- 983 Chili.
- 984 Bolivia.
- 985 Peru.
- 986 U. S. of Colombia. New Grenada. Ecuador.
- 987 Venezuela.
- 988 Guiana.
- 989 Paraguay. Uruguay.

990 Oceanica. Polar Regions.

- 991 Malaysia.
 - .1, Borneo; .2, Celebes; .3, Moluccas or Spice Islands; .4, Philippine Islands.
- 992 Sunda.
 - .1, Sumatra; .2, Java.
- 993 Australasia.
 - .1, New Zealand; .2, New Caledonia; .3, Loyalty Islands; .4, New Hebrides; .5, Solomon Islands; .6, New Britain, New Ireland; .7, Admiralty Islands.
- 994 Australia.
 - .1, West Australia; .2, South Australia; .3, Queensland; .4, New South Wales; .5, Victoria; .6, Tasmania.
- 995 New Guinea.
- 996 Polynesia.
 - .1, Fiji, Friendly and Navigator's Islands; .2, Society, Austral and Cook's Islands; .3, Marquesas Islands and Low Archipelago; .4, Minor Polynesian Islands; .5, Micronesia; .6, Caroline and Pelew Islands; .7, Ladrone Islands; .8, Marshall and Gilbert Islands; .9, Hawaii.
- 997 Isolated Islands.
- 998 Arctic Regions.
- 999 Antarctic Regions.

RELATIVE SUBJECT INDEX.



RELATIVE SUBJECT INDEX.

NOTE TO USERS.

THE Index is a single alphabet. After each subject is its class number, referring to the preceding tables of classification. There is no number above 999. Look for decimals in regular arithmetical order; e. g., 783.29, Processional music, comes just before 783.3 in the decimal subdivisions of 783 and before 784.

The Index is not a gazeteer or biographical dictionary, and gives only names of places and people used as headings in the Tables. The same is true of names of plants, minerals, etc. To find to what group any individual belongs, consult the proper reference book.

To save swelling the Index by constant repetitions of long lists of subdivisions under each country, language, etc., three general notes and tables are prefixed and are referred to from all such topics in the Index.

Table 1.—Geographical Divisions.

NOTE 1.—The following subjects may all be divided geographically by adding the geographical numbers: 4, Europe; 5, Asia; 6, Africa; 7, North America; 8, South America; 9, Oceanica. These can be sub-divided as minutely as wished, like the history, 940-999, which see for full table; e. g.: 42, England; 73, United States; 944, New South Wales; 7471, New York City, etc.

These geographical figures, formed by omitting initial 9 from the historical numbers given in tables 930-999, are simply affixed to the number given in the table below; e. g.: Atlases, 912; Atlases of New South Wales, 912.944; History of mints, 332.49; History of mints in England, 332.4942; Colleges, 378; Colleges in N. Y. City, 378.7471.

373.	Academies, private.	342.	Constitutional law.
379.	“ public.	922.4	Continental Protestants' lives.
354.	Administration.	343.	Criminal law.
923.5	“ biography.	923.4	Criminals' lives.
283.	American P. E. and Ang. church.	91	Description, geographical.
922.3	“ “ “ “ “ biog.	591.9	Distribution of animals, geog.
591.9	Animals, geographical distribution.	549.9	“ “ minerals “
328.	Annals, legislative.	581.9	“ “ plants “
913.	Antiquities, archæology.	922.4	Dutch Reformed church biog.
923.5	Army biography.	372.9	Education, elementary.
912.	Atlases.	370.9	“ history of.
923.3	Bankers' lives.	376.9	“ of woman.
922.6	Baptists' “	923.7	Educators' lives.
016.9	Bibliography of history.	372.9	Elementary education.
015.	“ special countries.	923.1	Emperors' lives.
920.0	Biography of countries, collective; also religious biography 922.2 to 922.7, and biography of sociology 923.1 to 923.8	373.	Endowed schools.
581.9	Botany, geographical.	283.	Episcopal church.
923.3	Capitalists' lives.	922.3	“ “ biography.
922.2	Cardinals' “	572.9	Ethnology.
282.	Catholic church.	336.	Finance.
922.2	“ “ biography.	923.3	Financiers' lives.
283.	Church, Episcopal.	349.	Foreign law.
922.3	“ “ biography.	327.	“ relations.
923.5	Civil service biography.	354.	“ states, administration.
332.49	Coinage, history of.	027.0	General libraries, hist., reports, etc.
378.	Colleges.	581.9	Geographical botany.
325.	Colonies.	591.9	“ dist. of animals.
923.8	Commerce, biography of.	549.9	“ “ “ minerals.
922.5	Congregationalists' lives.	91	Geography, description.
		911.	“ historical.
		912.	“ maps.
		55	Geology.

GEOGRAPHICAL DIVISIONS.

923.2	Governors' lives.	329.9	Parties, political (except U. S.)
911.	Historical geography.	923.6	Philanthropists' lives.
016.9	History, bibliography of.	912.	Plans of cities, etc.
332.49	“ of coinage.	923.3	Political economy biography.
378.	“ “ colleges.	329.9	“ parties (except U. S.)
370.9	“ “ education.	923.2	“ science, biography.
372.9	“ “ “ elementary.	923.2	Politicians' lives.
373.	“ “ “ private.	922.5	Presbyterians' lives.
379.	“ “ “ public.	923.1	Presidents' lives.
378.	“ “ “ universities.	373.	Private schools.
376.9	“ “ “ woman.	283.	Protestant Episcopal church.
027.0	“ “ general libraries.	922.3	“ “ “ biog.
332.49	“ “ mints.	922.4	Protestants, Continental, lives.
373.	“ “ private schools.	379.	Public school system.
379.	“ “ public school system.	923.1	Queens' lives.
27	“ “ religion.	923.8	Railroad officials' lives.
628.09	“ “ sanitary engineering.	327.	Relations, foreign.
326.9	“ “ slavery.	27	Religious history.
341.2	“ “ treaties.	378.	Reports of colleges.
378.	“ “ universities.	372.9	“ “ elementary education.
376.9	“ “ woman education.	027.0	“ “ general libraries.
325.	Immigration.	373.	“ “ private schools.
328.9	Industrial legislation.	379.	“ “ public school system.
923.4	Judges' lives.	378.	“ “ universities.
923.1	Kings' lives.	376.9	“ “ woman education.
923.4	Law biography.	282.	Roman Catholic church.
342.	“ constitutional.	922.2	“ “ “ biography.
343.	“ criminal.	923.1	Rulers, Chief, lives.
349.	“ foreign.	628.09	Sanitary engineering, history, etc.
338.9	Legislation, industrial.	923.7	School officers' biography.
328.	Legislative bodies and annals.	373.	Schools, private.
923.2	Legislators' lives.	379.	“ public, system.
027.0	Libraries, general, histories, rep., etc.	923.5	Service, Civil, biography.
922.4	Lutheran biography.	326.9	Slavery history.
912.	Maps.	923.2	Statesmens' lives.
923.8	Merchants' lives.	31	Statistics.
922.7	Methodists' “	923.7	Teachers' lives.
549.9	Minerals, geographical distribution.	91	Travel, description.
332.49	Mints, history.	341.2	Treaties, texts and history.
923.5	Naval biography.	378.	Universities, history, reports, etc.
923.2	Nobles' lives.	376.9	Woman education.

NOTE 2.— The form distinctions 01, Philosophy; 02, Compendis; 03, Dictionaries; 04, Essays; 05, Periodicals; 06, Societies; 07, Study and Teaching; 08, Polygraphy, Collective Works; 09, History, can be used wherever needed if these numbers are not already employed with other significations. They have been printed in the full tables only where they seemed specially needed.

Table 3, Part 1.— Languages and Literatures.

NOTE 3.— Changing initial 4 of any philology number to 8 gives the literature number for that language; e.g.:

French Philology 44	French Literature 84
Portuguese " 469	Portuguese " 869
Swedish " 439.7	Swedish " 839.7
Bulgarian " 491.81	Bulgarian " 891.81

The form divisions of English literature: 1, Poetry; 2, Drama; 3, Fiction; 4, Essays; 5, Oratory; 6, Letters; 7, Satire and Humor; 8, Miscellany; may be used to sub-divide other languages. The table below includes all mentioned in the classification, except those in 494-499, not yet sub-divided.

For philological topic numbers to be added to any of these language numbers, see part 2 of this table.

491.58	Afghani.	491.93	Lettish.
492.8	Amharic.	491.92	Lithuanian.
429.	Anglo Saxon, special division. see 829.	491.93	Livonian.
492.7	Arabic.	491.64	Manx.
492.1	Aramaic.	491.46	Marathi.
491.54	Armenian.	479.	Medieval Latin.
491.68	Armorican.	489.	Modern Greek.
491.52	Avestan, Zend.	491.55	" Persian.
492.19	Babylonian.	491.87	Moravian.
491.52	Bactrian, Old.	492.19	Nineveh Cuneiform.
491.68	Bas Breton.	439.8	Norwegian.
491.44	Bengali.	491.52	Old Bactrian.
491.86	Bohemian.	493.1	" Egyptian.
491.68	Breton, Bas.	447.01	" French.
491.81	Bulgarian.	439.6	" Norse.
492.6	Carthaginian.	491.51	" Persian.
492.2	Chaldee.	491.91	" Prussian.
491.81	Church Slavonic.	439.2	" Saxon.
493.2	Coptic.	491.56	Ossetic.
491.67	Cornish.	491.3	Pali.
491.83	Croatian.	491.42	Panjabi.
491.65	Cymric Group.	491.53	Pehlevi.
491.66	" or Welsh.	491.55	Persian, Modern.
439.8	Danish.	491.51	" Old
439.4	Deutsch, Platt.	492.3	Peshito.
439.3	Dutch.	492.6	Phenician.
493.1	Egyptian, Old.	439.4	Platt Deutsch.
42	English.	491.89	Polabian.
492.8	Ethiopic.	491.85	Polish.
439.6	Faroese.	469.	Portuguese.
439.3	Flemish.	491.2	Prakrit.
44	French.	449.	Provençal.
439.2	Frisian.	491.91	Prussian, Old.
491.61	Gadhelic Group.	459.9	Rumansh.
491.63	Gaelic or Scotch.	491.7	Russian.
43	German.	491.79	Ruthenian.
439.9	Gothic.	492.5	Samaritan.
48	Greek.	491.2	Sanskrit.
489.	" Modern.	439.2	Saxon, Old.
491.47	Gujerati.	491.63	Scotch or Gaelic.
492.4	Hebrew.	491.82	Servian.
492.9	Himyaritic.	491.41	Sindhi.
491.43	Hindi.	491.48	Singhalese.
491.43	Hindustani.	491.81	Slavonic, Church.
491.53	Huzwaresh.	491.87	Slovakian.
439.6	Icelandic.	491.84	Slovenian.
491.1	Indic Group.	491.88	Sorbian.
491.62	Irish.	46	Spanish.
45	Italian.	439.7	Swedish.
491.83	Kroatian.	492.3	Syriac.
491.57	Kurdish.	491.45	Uriya.
47	Latin.	459.	Wallachian.
479.	" Medieval.	491.66	Welsh.
		491.52	Zend.

Table 3, Part 2.—Philological Divisions of Languages.

All languages can also be divided like 420, English, by adding the figures below; e. g.:

English orthography	421
Provençal "	449.1
Arabic "	492.71
Gaelic "	491.631
Syntax of English verbs	425.8
" Modern Greek verbs	489.58
" Danish "	439.858
" Armenian "	491.5458
Inflection of English nouns	425.15
" Anglo-Saxon nouns	429.515
" Hebrew "	492.4515
" Welsh "	491.66515

16	Accent, pronunciation.	1	Orthography.
61	" prosody.	17	Palæography.
26	Adjectival forms, derivation.	29	Particles, derivation.
516	Adjectives, inflection.	59	" syntax.
56	" syntax.	27	Personal pronouns, derivation.
29	Adverbs, derivation.	14	Phonetic spelling.
11	Alphabet.	27	Possessive pronouns, derivation.
67	Antistrophe, prosody.	57	" " syntax.
53	Arrangement of words and clauses.	22	Prefixes, derivation.
56	Articles, syntax.	29	Prepositions "
12	Aspirates.	59	" syntax.
25	Case endings, derivation.	27	Pronominal forms, derivation.
53	Clauses, arrangement of.	517	Pronouns, inflection.
26	Comparison, signs of, derivation.	57	" syntax.
54	Conditional sentences.	6	Prosody.
13	Consonants.	19	Punctuation.
7	Dialects.	61	Quantity, prosody.
3	Dictionaries.	86	Readers, elementary.
25	Diminutives, derivation.	87	" selections.
12	Diphthongs.	23	Reduplication, derivation.
86	Elementary readers.	27	Relative pronouns, "
83	Errors of speech.	57	" " syntax.
2	Etymology, derivation.	66	Rhymes, prosody.
51	" inflection.	66	Rhyming dictionary.
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¹ Chenango Co., N. Y.	"	974.773	sects	280
¹ Cher, France,	"	944.55	Sunday	263.3
¹ Cheshire, England,	"	942.71	¹ Christiania, Norway, history	948.2
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¹ Chiapas, Mexico,	history	972.7	¹ Christiansand, Norway, history	948.3
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¹ Oudh, India,	history	Pamphylia	ancient history	939.29
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¹ Pacific Ocean,	physical geography		stellar	"
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